

```

<400> 1612
tttttttttt tttttttttt ttttttattn canaangctt ctatatattat atatttttaa 60
taatcagaaa ttactatagt taatgacntt ttgtttgggc tccttacata aaatacaatt 120
ttatacattt taatttttat acatatattt tatatttaat tgcacagatc atttgggtat 180
ttattatatt aattgactac tttatgataa tttgaatcct aattagtcta ttcaagattg 240
ntttcctggg ttaagcetta cttagcaatc tcacttttgc attcttcgcc ggggtggcgng 300
gggatgcatc gcaactccgt tttatcaaag tgcaagccat ttggacaatc ataatgnntt 360
at ttggccatt tgntgntaac caagaaacat tgataatatt ttttacaatc tcttcgatcg 420
gaaaaaacgt tttcactttt gcatgcagtt ctgcacgaga aagatttttg ggcaaaccat 480
tcgggtggcg gncttcacat ttca 504

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<210> 1613
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<213> Ctenocephalides felis

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<223> n = unknown

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<220>
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<223> n = unknown

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atctgaattt tttttgttaa attattttta atgttataaa tcataggnat atttattttcc 60

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FC-8-C3.ST25.txt

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aagttgcaaa tatggaaact .accatcccta tattatatat aattgtatat attcctgaac      120
tgttttatatt gaatntatatt taaacacaaa ctttaattat attcaaataa tgatggacgt      180
gatttcatat atccctaaac tttggatcag agtttgagag aagcctagcc atagtgtata      240
gaaaattatg tgtagggtgta taattaagat tgcaggagtc aaatatataa agcattgata      300
caaattatac attccaatatt tctgtaaacc gtgttctttg gntgattatg gggtatatca      360
caanttatga atcatgtaaa ttaattgnaa tttgaaatgn atctccgatg taaatg          416

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<210> 1614
<211> 328
<212> DNA
<213> Ctenocephalides felis

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tccttacata aaatacaatt ttatacattt taatntttat acatattttt tatatttaat      120
tgcacanatc atttgngtat ttattatatt aattgactac nttatgataa tttgaatcct      180
aattagtcta ttcaagattg ntttcctggn ttaagcctta cttagcaatc tcacttttgc      240
attcttcgcc ggggtggcgtg ggtatgcac gcaactccgn tttatcaaag tgcaagccat      300
ttggacaatc ataatgnttt atttgcca      328

<210> 1615
<211> 502
<212> DNA
<213> Ctenocephalides felis

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<222> (458)..(458)

<223> n = unknown

<400> 1615

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cgcatttcat gacggggcaa tcagcttctg gcgatttctt tttacacata tttttagaat      120
gatcatatca tagttaggng ggcattcgaa aacctgcctt taccatcttt gcagaataag      180
tatcttgngc agcttttcgga tctggctgat atcctacaac cgccatgtag tttctgncgc      240
ttacaggttt tcccaggttt tgatgagcca tatcatctac acaaaatgga gcatcggaat      300
ttgagtctct gcaattgatt ggtgnaaatg ggggttcttg ntcagcgcac aacttcaaaa      360
gtagaacaat cgtgacaaaa tgttcnact gttattagta ctttcggccg ngacacgcct      420
aaccgaatct gnagatattc atacacttgc gggcggtnga gcatgcatta gaaggcccat      480
tcgcctatta gggagcggtt ac                                          502
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<210> 1616

<211> 346

<212> DNA

<213> Ctenocephalides felis

<220>

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<223> n = unknown

<400> 1616

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aatttacgca tagcacattt cgctcgtgca aatctcttcc tcgcattcca gacaagtttc      120
cttatcgcat ttgtagggtg cgngcagcc tctcttcaact ttatctcgtc aatatctaag      180
```



FC-8-C3.ST25.txt

tagcatttgc ccatgcattt ggncttcgtc tgcacttttt cagggtcgca aggcaatttt	240
catcattttc atcacaagaa acacattcgt gttttttggc atcaccattg cattcgtttt	300
tgtcacaagg tgggcaacgt tctgggtttt tctcgcacat tttttt	346

<210> 1617  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

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attatgaaag ttggtatgca ctttcttaat taaatttact gctaaataaa gtttatattt	120
atattaaatt acaattagga ctacataatg cactttaaaa attatggcat agttaagact	180
tcattagaaa tacaataagc tacaattata aatngnatta tattttgtat ttttatcata	240
aaagaataaa atcattcaga atgcaaaaaa	270

<210> 1618  
 <211> 366  
 <212> DNA  
 <213> Ctenocephalides felis

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 taaaaacatt tcatntnaat gtaaacaaaa tngatgatca ttgataattc tngntaaatg 120  
 tgcttttttta aagcaaattt atttacatat taaacatctg tgaattttga taatttatct 180  
 cgnagcatca tgttttcttt cttcattcgc tcaagctctt ggccaagacc aatattctcc 240  
 ttctccaagt atcctgcacg taaggctatt tgattttctt tcatgcgtcg agcatctcga 300  
 gatcgcttgg ctgccatggt attctttctc ctctagccc aatacttata atccttcaaa 360  
 ttatca 366

<210> 1619  
 <211> 405  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1619  
 aacacatttc caaacaattt gctgaggata aacgttaca aggtatcatc gattgctttg 60  
 tacgtatccc taaggagcag ggccgtactt tccttctggc gtggtaactt ggccaatgtc 120  
 attcggttatt tcccaactca ggctttgaac tttgcattca aagacaagta caagcaagtt 180  
 ttcttgagtg gagttgacaa gaagacccaa ttctggcggt acttcgcagg aaacttggca 240  
 tctggtggtg ctgctggagc cacatcattg tgcttcgtct acccacttga ttttgcccgt 300  
 accagattgg ccgctgatgt aggtaaaggc gctgggtcaac gtgaattctc tggattgggc 360  
 aaccgcttga ccaaaatctt caagtctgat ggtctccctg gattg 405

<210> 1620  
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 <213> Ctenocephalides felis

<400> 1620  
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<210> 1621

<211> 475  
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<400> 1621  
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 attatggatc gttaatagca attnttttaa gtcattcat aaatactgna taattatttc 120  
 attntttatc gcctttttatt attgaaatgc ccacaacaag tatacattca aaatcaaact 180  
 atatgggatt agnagtanat aaataattat ttactttctac taattaatat tggcgaattc 240  
 atattctatt tccatcccta tccctttttt ataaatcgng nttcaataat ttacctcaaa 300  
 atgagatcta aaatatgaag aaatgatata caatttcac tataacttata ttttaaaagn 360  
 gcacaattaa taataaaaag attattttac tctcgttctt gagaattgag atttggtctt 420  
 tggcaatcac gnaacaatat tctgaacttt catagctttt aatataagtn aaagt 475

<210> 1622  
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 <212> DNA  
 <213> Ctenocephalides felis

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 taaaaagaat tgggatttgt gcatttcacg acggtgcaat caagcttctg acgatttctt 120

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tttacacata tttttagaat gatcatatac atagttaggt gggcattcga aaacctgacc 180
tttaccatct tgcagaataa gtatcttgtg cagtctttcg gatctggetg atatectaca 240
accgcgcatg tagtttctgc cgcttacang ttttcccag gttttgatga gcacatatca 300
cctacacaaa atggagcatc ggaatttgag tctctgcaat tgattgntgn aattgggggtt 360
tcttgtcagc gcacaacttc aaaagtagaa caatcgtgac aaaatgggtcc caactgctta 420
ttagt 425

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<210> 1623
<211> 445
<212> DNA
<213> Ctenocephalides felis

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 <223> n = unknown

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 nataatatat gtattggatt aacttaghna attctccctc gcncctttat actatngtaa 120  
 ccagaaacaa anatcagagt gtgttnnaacg taaattcata tattttnggt aaaatacaat 180  
 caanatataa cagtgcccaa tattattaaa atacgtatgt gtgacgaaac ctaaagtgtc 240

FC-8-C3.ST25.txt

gtcagaatat naaaaacaat aatattttata ccttcaaagtg tatgctttga aaaaaagcat	300
tcgaagattt tgtttaaata ttttgntaag tccacattta tgtttggtcg ntcaattaaa	360
ntatgtttct tttgcangta agattatgtt gtagatattg tcacaaaatt agtatatttt	420
atgtttatttt aagcatattg gtatt	445

<210> 1624  
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 <212> DNA  
 <213> Ctenocephalides felis

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 <223> n = unknown

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catgcaaaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt	120
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcaaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaatcac aaatgatctg tgcaattaaa tataaaaaat	360
atgtataaaa attaaaatgt ataaaattgn attttatgta aggagcacia acaaaatgnc	420
attaactata gtaatttctg attattttaa atatataaat atagaagctt tatgaaattg	480
gaaa	484

<210> 1625  
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 <213> Ctenocephalides felis

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<400> 1625  
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 acgggtgcaat cagcttntga cgatttcttt ttacacatat ttttagaatg atcatataca 120  
 tagttagggtg ggcattcgaa aacctgacct ttaccatctt gcagaataag tatcttgtgc 180  
 agtcttttcgg atctggctga tctctacaa ccgcgcagt agtttctgcc gtcttacagt 240  
 tttccccagg ttttgatgag cacatatcat ctacacaaaa tggagcatcg gaatttgagt 300  
 ctctgcaatt gattgttgna attgggggtt cttgtcagcg cacaacttca aagtagaaca 360  
 atcgtgacaa aatgtcccaa ctgcttatta gt 392

<210> 1626  
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 <212> DNA  
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<220>  
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<220>  
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 <223> n = unknown

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 <223> n = unknown

<220>  
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<220>  
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 <223> n = unknown



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<220>
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<223> n = unknown

<400> 1626
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ggatatgaca caataccagc aacagttgtg acggcttgtg caatggccca gctgataact      120
aatgggggtgt tcttgggggtc tggcaacatt ccacgagcgg ngtcatagaa tcaaagtatg      180
ctgcacggta gatgatgata ccttgaacag atactccaaa accacggtac aatccaggga      240
gaccatcaga cttgaagatt ttggtcaagc agttgcccaa tccagagaat tcacgttgac      300
cagcgccttt acctacatca agcggccaat ctggtacggg cgaaatcaag tgggtagacg      360
aagcacaatg atgtggcttc agcagcacca ccagatgcca agttttctgc gaagtaacgc      420
cagaattggg tcttcttgtc aacttcaccc aagaaaactt nttgtacttg ctttgaatgc      480
gaagntcaaa gnctgagtgg gaaatacgaa tgacattggc caagtaccac gccagaaagg      540
aagtacgccc tgttcttang gatacgtaaa aagcaatcga tgatancttt tgtacggt      598

<210> 1627
<211> 232
<212> DNA
<213> Ctenocephalides felis

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<222> (6)..(6)
<223> n = unknown

<220>
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<222> (48)..(48)
<223> n = unknown

<220>
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<222> (65)..(65)
<223> n = unknown

<220>
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<222> (120)..(120)
<223> n = unknown

<220>
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<222> (160)..(160)
<223> n = unknown

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<220>
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<222> (216)..(216)
<223> n = unknown

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tttggnttac tttatgtgtt atataaaaaa atattatggt tgaacacngg ctcgcaaata    60
tgatnagggg atttaagaat tttacaattt agattttttt aaatccatga atatatttgn    120
tctaatacaa attattcatt ttacgcttaa ttttattggn tgaactaata gatagataga    180
taaagatata gagtcaatat aaaaatgaag aaaatnaaat taaaagtgga ca            232

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<210> 1628
<211> 404
<212> DNA
<213> Ctenocephalides felis

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<220>
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<223> n = unknown

<400> 1628
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tggatcaata tacgcaataa ctcataattc ttctcattga gacgtggggc attctctctc    120
cagaacttag canatttgtg aacagggtgac cattccaatc tgccggactt gatttctgta    180
gcatattcat caaatgagct aaggtcttga atggaagctt gtaatttttc ggtcaaatat    240
tcaacatcag caacgatatc ctcatcatct gaacgtcttt gttccaggat ggataattgt    300
ttcaatacct tgctttgcac cattgcaatg caatgctcct tggccacctg ttgatctttc    360
actttctcaa ttaaattcct ataaacagcc agtacccttc gcgg                    404

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<210> 1629
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<212> DNA
<213> Ctenocephalides felis

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<400> 1629
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cctttggacc acttcttctt tttggctttg ccacctccgg aacctctttt cttcttttgg    120
gtcttttgtg gctgttttagc cgaagacttt gaatccttc                    159

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<210> 1630  
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 <213> Ctenocephalides felis

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 cggatctgct cctatttccg gacaatactg catttcgggt gaactgcacg aattcacgca 120  
 actaaatttt acttttttac atttttgcaa tataatacat atatattata aaaaagtaaa 180  
 aaatcgntat taaaataatt aattacacgg gatatattag atagttaatt ttataataaa 240  
 ttgtattata taatagggaa tataatacat atatattata aaaagtaaaa aaatcgttat 300  
 taaaataatt aattacacgg gatatattag atagttaatt ttataataaa ttgnattata 360  
 taatagggaa tataatacat atatattata aaaaagnaaa aaatcgttat taaaataatt 420  
 aattacacgg gatatattag ataggtaatt ttatnataaa ttggattata taatagggga 480  
 tataatacaa aaaaaaa 497

<210> 1631  
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<220>  
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<220>  
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 gttgtttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120  
 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacattttat 180  
 canaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgn 360  
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<210> 1632  
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<400> 1632  
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ttgagcagca gtgagaacaa aatatctact aactatgact cctccacaaa tatggtcacc	120
tctatataaa acagatgccg cgtaaggtaa ttcgctgatg tcagcagggtt ttcctccgat	180
catacgagaa tcgggtcaaat ttttgctttc tgcccctgaa aagatgaata gtagtaatat	240
attaatcatg gaaaaacttt tgtatgtatt acaaaataac tgctaattaa aaatttagat	300
ttgttattgg aacattcaat ttgttcatag ataaatttta ttacattgna aaatttgata	360
agggttcatt ccatatcaca aatttttaca atggctgnaa ctgggcagcc tttttatttt	420
atttagt	427

<210> 1633  
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<220>  
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agtgaagaa gtgactacaa cttntttggc aacgactcca tgcactcctg gagagaagac	180
tcaaattgat tgtaatactt gcacctgngc cagggatggn tctggatacg cctgcactcg	240
caaaatgtgt ttgccagcca cccacgatcg tcgacgtaga gaagctgaaa ctgaagaagt	300
caaagaagtt acaactgata ctttggcaac cactccatgc aaagctggcg agcaaagaca	360
agtggactgc aacacctgca cctgtgctgc tgatggaact ggatatcaat gcacccgcca	420
agcttgtgag tttgcagt	438

<210> 1634  
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 gataaattga ttattctgct tccttatcct ccgcgtccaa aatagttttg aagcaaaagg 180  
 ggtggggacca aatancccaa accagagtag accttactca tgaactccac ccagtgaaac 240  
 gcagnggtgc aa 252

<210> 1635  
 <211> 444  
 <212> DNA  
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 aatattttatt tccaatttgc aaatatggaa actaccatcc ctatattata tataattgta 120  
 tatattcctg aattgnttta tttgaattta ttttaaacac aaactttaat tatattcaaa 180  
 taatgatgga cgtgatttca tatatcccta aactttggat cagagtttga gagaagccta 240  
 gccatagtgt atagaaaatt atgtgtaggt gtataattaa gattgncagg agtcaaatat 300  
 ataaagcatt gatacaaatt atacatccca nttttctgna aaccgggttc tttggntgat 360  
 tatgggttat atcacanctt atgaatcatg taaattaatt gnaaatttga aatgnatctn 420  
 cgatgtaaat gntaaaaaaa aaaa 444

<210> 1636  
 <211> 86  
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<400> 1636  
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 ttccgtgacc aggaaggaca agatgt 86

<210> 1637  
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<220>  
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<400> 1637  
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 catacataat ttaaatcaaa attaaatacg agtaacaaaa gtagtaaaca aatagaatta 120  
 gttctaattct tcttacacct aaaaactatt ttagataaat tgagtagatc gccatcttct 180  
 tttaatttaa taaattcttt tttatgatgn attaaatatt catatatcgc ttattttaa 240  
 gtttccggnat tcttataatt tgt 263

<210> 1638  
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<400> 1638  
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atttggtaga atcagtttta actgatgcc	tggatcagta taaacaacag atggttacca	120
aagaagttgt cgccactatc aataggaag	catttttgcc agtagaatgc tgcggtggag	180
ttgaattgag tggacttaat ggccgcatta	aggtttcaaa cacattggaa tcccgtttgg	240
acttgattgc tcaacaattg attccagaaa	tccgaactgc cttattcgga agcaatgcca	300
accgtaaatt cacagactaa atattcatat	caaattacat gattaggatg caaagtgacc	360
tagattcgta ttagtaaaaa gcatcaagat	caaaatgaat gcacaatcag attcataatg	420
agtgtttttg catgatacac attttttcag	acaatagttc atataattga tgcttcactt	480
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<210> 1639  
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 tacattttta tttttataca tatnttttat atttaattgc acagatcatt tgtgtattta 180  
 ttatattaat ngactacttt atgataattt gaatcctaata tagtctattc aagattggtt 240  
 tcctgggttta agccttactt agcaatctca cttttgcatt cttcgccggg nggcgtgggt 300  
 atgcatcgna actccgtttt atcaaagngc aagccatttg gacaatcata atgttttatt 360  
 tgccatttgt tgntaaccaa gaaacattga taatatTTTT tacaatctnt tcnatcgga 420  
 aaaacgtttt cacttttgca tgcagttctg cagagaaaag attttgggtc aaaccattcg 480  
 ttgacg 486

<210> 1640  
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<400> 1640

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ttaatggcat ttngtttgtg ctccttacat aaaatacaat ttatacatt ttaattttta      180
tacatattcn ttatatatta ttgcacagat catttgtgta ttattatat taattgacta      240
ctttatgata atttgaatcc taattagtct attcaagatt gttttcccg ntttagcctt      300
acttagcaat ctacttttg cattcttcgc cgggnggcgt gggatatgat ngcaactccg      360
ttttatcaaa gngcaagcca ttggacaat cataatgttt natttgccat ttgttgtaa      420
ccaanaaaca ttgataatat tttttacaat ctcttcgatc ggaaaaaacg ttttcacttt      480
tgcattgngt tctgnacgag                                     500

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<210> 1641

<211> 500

<212> DNA

<213> Ctenocephalides felis

<220>

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<222> (113)..(113)

<223> n = unknown

<400> 1641

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gcaggcagca tttgcacaca ttgtgtgaa tataaacat taataaaatt atntgcataa      120
caatattttt acaaatctac tacaatcaat atttcaacta tatacaatga ttattaaaaa      180
ttgaagattc ctattttatg aaaaatagtt tggaacagat ttaaattact tagtcatttc      240
tttcattctg tttaatgcac tgccagcttt gaaccatcca atttgcaaat cgttcaacgt      300
gtgtttcagt aagattttat cgacttttcc atcagcatgt ttgatctcac actcaacagg      360
ctttccagca ctaagtttgt ccaaacctaa caagctgatt ttgtcagttg gttgaatctt      420
gtcataatct cctgggtgtg caaaagtcag tggcaacatt ccttgctttt tcaagttagt      480
ttcatgtata cgtgcaaaag                                     500

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<210> 1642

<211> 232

<212> DNA

<213> Ctenocephalides felis

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<220>
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<400> 1642
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atttcaaatac ccccggaagac accgacaaag ccaaaacaga gctcaccaaa gccatcaaaa    180
ctttaagcga agccttcgac aaaacctaca aaggcaaagt gctgtttaca gt              232

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<210> 1643
<211> 414
<212> DNA
<213> Ctenocephalides felis

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<222> (26)..(26)
<223> n = unknown

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<220>
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<223> n = unknown

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<220>
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<223> n = unknown

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atgttctaga aatacaaagt gtaaagttca aggtttgtat agcttaataa agtaaacatt    120
ttaaaatgta atgaatttat ctgcaaatac tcaaaatcaa aattactata taatgattat    180
tgaaataatg cttttataga ttgcatttca atctgtatta aattgtatgt aaatcacagc    240
acaagatcta acacacaatt catctaacag aaagaacaaa ataatttttaa tgttattaaa    300
aattacatat aaaataactt ttacaataaa gtaaccttac atgagatgtg ttgatttcag    360
atacttttca tacaacagtg ctttctgtat aaacaatata atataaataa cggt          414

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<210> 1644
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<212> DNA
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<400> 1644  
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 atgacatttt gtttgtgctc cttacataaa atacaatttt atacatttta atttttatac 180  
 atatttttta tatttaattg cacagatcat tngngtattt attatattaa ttgactactt 240  
 tatgataatt tgaatcctaa ttagtctatt caagattgtt ttcttggttt aagccttact 300  
 tagcaatctc acttttgcac tcttcgccgg gtggcggtgg tatgcatcgc aactccgttt 360  
 tatcaaagtg caagccattt ggacaatcat aatgttttat ttgccatttg ttgttaacca 420  
 agaaacattg ataatatatt ttacaatctc ttcgatcgga aaaaacgctt ccttttgcac 480  
 gcagatntgc acgagaa 497

<210> 1645  
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 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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 <223> n = unknown

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 gaacccttaa aatatagtaa atttgcgcaa ccagttactt tgccagaagc caatgaacaa 120  
 actaaacaca atgcatcagc tacgcttgtc ggatggggaa taaattctac taccgacgga 180  
 gttttgcaaa cacatctcca agaattgcac taccanatcg tcggatccaa ggaatgtggt 240  
 gatttgcact ttagacccat ttataaagag caaatttgcg cagcttatcc agattatgac 300  
 agagcacaat gcagtggaga ttctggaggt ccattgaccg tagatgaggt 350

<210> 1646  
 <211> 335  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<400> 1646  
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 gctgcggcag atacacaaat tgctgtatca gtctttgacc agcctaatgc aaacagatac 180  
 attgtttgaa tagcagaaaa tgctatgtcg gagtatagtg caaatgtcac tccaataacc 240  
 atatttacat aaatccagtc ttttaacaaa gtcaaatcca aaaagtcaac gataacttgc 300  
 aattttcccc tagatttctt ctctaccggt gcagt 335

<210> 1647  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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 tcttgggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agnaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480  
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<210> 1648  
 <211> 498  
 <212> DNA  
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<220>  
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 ttttgcaaat gtaaattttg tattttattta gccaaaattt ggagatctgt gtgttttagg 180  
 aataaccaga acaatttact attcgtatag taaatatcat ttgctacata taaaaatact 240  
 ctatattata catactctgt tcatttattht aattttgggtg acaatagtcc gatttttccaa 300  
 aaaataacaa tatgcttaaa attacataaa atataactaat tttgtgacaa tatctacaac 360  
 ataatcttac ttgcaaaaga aacataattt aattgaacga acaaacataa atgtggactt 420  
 aacaaaatat ttaaacaaaa tcttcgaatg ctttntttca aagcatacat ttgaagggtat 480  
 aaatattatt gctttttta 498

<210> 1649  
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 <212> DNA  
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<220>  
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 ggatatgaca caataccagc aacagttgtg acggcttgtg caatggccca gctgataact 120

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aatgggggtgt tcttgggggtc tggcaacatt ccacgagcgg tgtcatagaa tccaaagtat	180
gctgcacgggt agatgatgat accttgaaca gatactccaa aaccacggta caatccaggg	240
agaccatcag acttgaagat tttgggtcaag cagttgcca atccagagaa ttcacgttga	300
ccagcgcctt tacctacatc agcggnaat ctggtacggg cgaaatcaag tgggtagacg	360
aagcacaatg atgtggctcc agcagcacca ccagatgcca agtttctctgc gaagtaacgc	420
cagaattggg tcttcttctgc aactccaccc aagaaaactt gcttgtcttg tctttgaatg	480
cgangtcaaa gcctgagt	498

<210> 1650  
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tctngaataa acccaacgat tggacceaaa gccaatgtca ttattccttg caagaacatg	180
aacagcccggt atgccgaagg aaatctctcc tngnaaaaat attcggcaaa tactaaaggt	240
aaaggcacat gaatccatgt gcggaagaat cccaaaaaac ttgatattat aagcatcatt	300
gtaaagtcag tcacgtacaa gaacactata cgtgcgaaaa ctgagaataa agctccccgct	360

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aaaaataactg ttctactgct gactttaaca caagcagtc ttcctgcaa aaacatcctt	420
gatgacaaat ctgcagctgc tgcagcagac acacaaattg ctgtatcagt ctttgaccag	480
cctaatagcaa acagatacat	500

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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcgatgc ataccacgc caccggcga agaatagcaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt	420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaaaa	480
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 ccatcgtgat gctgggtctt ccatacagaa ttcacagtcg tattttttacc ctcaggacaa 180  
 ccttcagtcg acatatttag gtaaggaaac ttcaaattac cttgagcaat gttaatttgg 240  
 gctccactta ccatccaact gaccaggatt agacttgctg cagctcccac caaaactccc 300  
 tttgtgtttg ctttagggaa caagattccc aatgtaaaca ttccaaaag gggtcctgca 360  
 gtaactccag tgacactaat gaccaaagtc atgacgcttc taattggtct actacaaaga 420  
 caagtccgan gcaaattcct ncaattacta ctacagnacg cttcataata ttactgggng 480  
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<210> 1653  
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<220>  
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<222> (63)..(63)  
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<220>  
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 acataaaaata caattttata cattttaatt ttatacata ttttttatat ttaattgcac 180  
 agancattag tgtatttatt atattaattg actactttat gataattgga atcctaatta 240  
 gtctattcaa gattgttttc ctggttnaag ccttacttag caatctcact nttgcattct 300  
 tcgccgggng gcgtgggtat gcatcgcaac tccgttttat caaagtgcaa gccatttgga 360  
 caatcataat gttttatttg ccatttggtg ttaaccaaga aacattgata atatttttta 420  
 caatctcttt cgatcggaaa aaacgntntc actttagcat gcagttctgc acgagaaaga 480

ttttgggtaa aaccattcgt

500

<210> 1654  
 <211> 492  
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 tcttgggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccgcgcga agaatgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480  
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<210> 1655  
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 atatgttggtc aatgatatat cattgatata gaaggctttt tatcagcttt ttataaat 180  
 cgataacaca gatattgata aataaattac atgtgacccg gcaatgcttg aggtccctgc 240  
 ataaatatat ttgaccccat tcgctgctga tattgcacac tttgttgga ttcatcgta 300  
 ggattagaat ggcttgatgc aggtatggtt cccatgccat ttgtaatatg caatccattt 360

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aaatgttgag acatttgatg tattaacata ggattagggc ctggttgtgg ttgtcctatt 420  
 gggtgaggat tattcgctag ggacatttga gaactgttct gaatcaattg catttgtggc 480  
 tgactttgat ttactatt 498

<210> 1656  
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<220>  
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 <222> (29)..(29)  
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<400> 1656  
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 ccatcaatat atatatatat gaagagtctt ttatccttcc tgggtaaaagt tttctgt 177

<210> 1657  
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<220>  
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<400> 1657  
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 aatgggggtgt tcttgggggtc tggcaacatt ccacgagcgg tgtcatagaa tccaaagtat 180  
 gctgcacggg agatgatgat accttgaaca gatactccaa aaccacggta caatccaggg 240  
 agaccatcag acttgaagat tttgggtcaag cagttgcca atccagagaa ttcacgttga 300  
 ccagcgcctt tacctacatc agcggccaat ctggtagcgg cgaaatcaag tgggtagacg 360  
 aagcacaatg atgtgggtcc agcagcacca ccagatgcca agtttcctgc gaagtaacgc 420  
 cagaattggg tctttctgtc aactccaccc aagaaaactt gcttgtactt gtctttgaat 480

gcgangttca aagcctga

498

<210> 1658  
 <211> 365  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (34)..(34)  
 <223> n = unknown

<400> 1658  
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 aggattcctt aaccggatct gctcctatct ccggacaata ctgcatttcg ggtgaactgc 120  
 acgaattcac gcaactaaat ttactttttt tacatttttg ctcggttttc ggtacagggtg 180  
 taggttcagg agtaggtact actcctgggtg cgggctcatc caatgatgca aatacttctt 240  
 tatttactgt taaaggcggt ccgtcgacat taaactcacc atcataagcg gtaacgacag 300  
 ataacgccac aaaactaata aaaaccaatg tgatataaaa cattctaata aatatgttac 360  
 ccagc 365

<210> 1659  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<400> 1659  
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 ctttcttgca acaattccat ttcggagtat ttactctta ttgaaactc aaggaacaag 120  
 agtgccgtaa cattgttttg ataagtgagt gcgttgctca aaagcacagg accaagattg 180  
 acaactacat tccaatattt taattaattt gttgttaatt ttgataacgt tgattttatc 240  
 cagatgtttg ttgtgt 256

<210> 1660  
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 <212> DNA  
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<223> n = unknown

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acaaaggaag aactattatt cttaaattaa agggaaattt tacatnatac attcaanang 120

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natcaattct aaaattatgn gaataaccaa aatttttaaac cattaacaca aatntttttt 180
attcccactt aacttattac ttattaaaat attacttggc aagtattttt atatttttgn 240
atnttttttag gtatattata aagacncctt tagttgttgc cttatgaata aaatacatat 300
ttataatata ttcacatatt atatactaaa ctattgagaa gacttagacg atttaatgga 360
attaatatga aggaatttat taattttaa tttataaata taaaaaattt tagtgctttt 420
tttaagatat cctatgttat attataattc gntttcattt acagatgtgg catataggta 480
tattcttngt ttaattaatt 500

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<210> 1661
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<212> DNA
<213> Ctenocephalides felis

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<223> n = unknown

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<220>
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<223> n = unknown

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<220>
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<223> n = unknown

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<220>
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<223> n = unknown

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<220>
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<223> n = unknown

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ataatcagaa attactatag ttaatgacat tttgtttgtg ctccttgcac aaaatacaat 120
tttatacatt ttaattttta tacatatatt ttatatattaa ttgcacagat catttgngta 180
tttattatat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt 240
gttttcctgg ttttaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggcgt 300
gggtatgcat ngcaactccg ttttatcaaa gtgcaagcca tttggacaat cataatgttt 360

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tatttgccat ttgttggttaa ccaagaaaca ttgataatat tttttacaat ctnttcgac 420
ggaaaaaacg ttttcacttt tgcattgcagt tctgcacgag aaagattttg ggtcaaacca 480
ttcgttgacg tcgcttcaca 500
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<210> 1662
<211> 425
<212> DNA
<213> Ctenocephalides felis
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<222> (14)..(14)
<223> n = unknown
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<220>
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<223> n = unknown
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actcttatttt cattaaataa aatcacaaac ataaatatttt taaatacata tatacaagta 120
aaacattttct tgggtctaaat aatgccatat actttatgat aatattttat attaaaatgt 180
ttcattatca aattactaat cacttacgga tgtcaataaa caaatctaaa atgatgattt 240
aacaatatgt ttattgttct cttatttctt taaatttatc actaattott atatctttga 300
tctacaacaa aataaattat cgcattgtaa ataattggaga gtaattttca attttcaagc 360
aagattccat gaaagattta atttagaatt gagatttgaa ttaacaatgt ttagttcaga 420
atagt 425
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<210> 1663
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<212> DNA
<213> Ctenocephalides felis
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<223> n = unknown
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cttatcgcat ttgtaggtgt cgggtgcagcc tctcttcact ttatctccgt caatatctaa	180
gtagcatttg cccatgcatt tgggtcttcgt ctgcactttt tcagggtcgt caaggcaatt	240
ttcatcattt tcatcacaag aaacacattc gtgttttttg gcatcaccat tgcattcgtt	300
tttgtcaciaa gttgggcaac gttctgggtt tttctcgcac atttttttca gattctgggt	360
cttgaacagg ttgctgggtgc accctaattt tatggcatca ccttggtgat ttaaaatact	420
caaacaagta tcttggtggt tgagacaaac ttccttggca tcatcttttag cgttgcaaac	480
cctgcgattt cttgggaaaa	500

<210> 1664  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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atatgttgtc aatgatatat cattgatata gaaggctttt tatcagcttt ttataaattt	180
cgataacaca gatattgata aataaattac atgtgaccgg gcaatgcttg aggtccctgc	240
ataaatatat ttgaccccat tcgctgctga tattgcacac tttgttggga ttcatcggtt	300
ggattagaat ggcttgatgc aggtatggtt cccatgcat ttgtaatatg caatccattt	360
aaatgttgag acatttgatg tattaacata ggattagggc ctggttggtg ttgtcctatt	420
ggttgaggat tattcgctag ggacatttga gaactgttct gaatcaattg catttggtggc	480
tgactttgat ttactatt	498

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<223> n = unknown

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<222> (212)..(212)

<223> n = unknown

<400> 1665

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nggtttcata aagcttctat atttatatat tttaaataat cagaaattac tatagttaat 120

gacattttgt ttgtgctcct tacataaaat acanttttat acattttaat ttttatacat 180

attttttata ttttaattgca canatcattt gngtatttat tatattaatt gactacttta 240

tgataatttg aatcctaatt agtctattca agattgtttt cctgggttaa gccttactta 300

gcaatctcac ttttgcattc ttgcgcgggt ggcgtgggta tgcacgcaa ctccgtttta 360

tcaaagtgca agccatttgg acaatcataa tgttttattt gccatttggt gttaaccaag 420

aaacattgat aatatttttt acaatctctt cgatcgaaa aaacgttttt cacttttgca 480

tgcagttctg cacgagaaag 500

<210> 1666

<211> 414

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (29)..(29)

<223> n = unknown

<220>

<221> misc\_feature  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (61)..(61)  
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<220>  
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 <222> (166)..(166)  
 <223> n = unknown

<220>  
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 <223> n = unknown

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 naacacatct catgtaaggt tactttattg taaaagttat tttatatgta atttttaata 120  
 acattaaaat tttttgttc tttctgtag atgaattgtg tggtanatct tgtgctgtga 180  
 ttacataca atttaataca gattgaaatg caatctataa aagcattatt tcaataatca 240  
 ttatatagta attttgattt tgactatttg cagataaatt cattacattt taaaatgttt 300  
 actttattaa gctatacaaa cttgaaactt tacactttgt atttctagaa cataagtatt 360  
 aaataaattg gtaaaaatat ttgnggctag attttcctat tgctaattgt gtgt 414

<210> 1667  
 <211> 138  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1667  
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 cataaagtaa acaaagt 138

<210> 1668  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
 <221> misc\_feature  
 <222> (58)..(58)  
 <223> n = unknown

<400> 1668  
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 agaaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag 120  
 tataattgca tttcacaaca caccgacgaa atatggttat ggtccatatt aagcaatgct 180  
 cgttcttcta tccacttgc tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
 tgctatcaga gatgttcctg atattaaaaa tgtaaatacg caattataat ctagaattat 300  
 tcctacaaca ttgcttccaa caacacttcc taatcgacct atcattaaag atatacatat 360  
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<210> 1669  
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 <213> Ctenocephalides felis

<220>  
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 <222> (58)..(59)  
 <223> n = unknown

<400> 1669  
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 atgtacatat tatattcaca ataattctaat cttccaagtt gcggaatgct tgctgtaaat 180  
 cctcatgtaa ttgatcaaaa tcaactcttga tctttgcctc accatccttg actgggtcct 240  
 tgaacttcat tgaggacaac tgatatagaa tattgcccac agcatctcta atgggtattcc 300  
 aggtaatctt gttttcactt tgtgcagtag attcaactgc gtattttgcc atatcataga 360  
 aagcaataat gttacgtaac ataccaactg ttttatagaa ggggcagaaa cgatcatatg 420  
 atgagtagct gttctgctgt aggaaatcgt ctttcaagag cttggcaact tcaaagtgtg 480  
 atcttgctcag ttttcgcg 498

<210> 1670  
 <211> 425

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (41)..(41)

&lt;223&gt; n = unknown

&lt;400&gt; 1670

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catttataac aaaatgtcag ctgccattgg aaagttttcg attgttaaaa accagcaaag      120
ccatagtcaa taaaagaagt ttgaaatata agatttttct gttcgagaat ttaatactgt      180
ttactgaacc tactattgtg aacaatgaag agttttttac ctgcaaagac tatatatctg      240
gatagaattt taccacctgt cgaatgtcag aagtctttat atgcattttac cctgacgagt      300
tcagaaaata aatctagaat tttccatata aaatgctcaa gtggcgatga aagatcgccc      360
tggatgacta ttattaggaa tattttgttt cagcaacaac aggcattggaa agaagcaatg      420
aaaaa                                           425

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&lt;210&gt; 1671

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 1671

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tctccaatat caaagcaggc tacagacaga acatggggat cacgagagct ttcaagtaag      60
tggatcaata tacgcaataa ctcataattc ttctcattga gacgtggggc attctctctc      120
cagaacttag cagattttgtg aacaggtgac cattccaatc tgccggactt gattttctgta      180
gcatattcat caaatgagct aaggtcttga atggaagctt gtaatttttc ggtcaaatat      240
tcaacatcag caacgatata ctcatcatct gaacgtcttt gttccaggat ggataattgt      300
ttcaataoct tgctttgcac cattgcaatg caatgctcct tggccacctg ttgatcttcc      360
actttctcaa ttaaattcct ataaacagcc agt                                           393

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&lt;210&gt; 1672

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (37)..(37)

&lt;223&gt; n = unknown



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 cttatcgcat ttgtagggtgt cgggtgcagcc tctcttcaact ttatctccgt caatatctaa 180  
 gtagcatttg cccatgcatt tgggtcttcgt ctcgactttt tcagggtcgt caaggcaatt 240  
 ttcattcattt tcatcacaag aaacacattc gtgttttttg gcatcaccat tgcattcggt 300  
 tttgtcaciaa gttgggcaac gttctgggtt tttctcgcac atttttttca gattctgggt 360  
 cttgaacagg ttgctgggtgc accctaattt tatggcatca ccttgtgcat ttaaaatact 420  
 caaacaagta tcttgtgggt tgagacaaac ttccttggca tcatcttttag cgttgcaaac 480  
 cctgcgattt cttgggaaaa 500

<210> 1673  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1673  
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 ataatgcagg atcagtaact gccatcattc tataaccagc tctactgtaa tccggtctta 180  
 aattccaaga taatgcatta aaatgtggaa attgccacgt atataaaaga cctcctaaga 240  
 taaatgctcc tgcacttaaa ttaccggaac aagcagccca acccattagg ggtgggattg 300  
 ctccgacgat tgatccaacc caagtattca gaatacttat tcttttcatt ggagtatata 360  
 cggagggtata taatattaaa ttagctgctc ctaatcctgc tgtaaacca ttacaccaa 420  
 aatataacat acctataccc gtagatgcag caaccgtagc aaaacctaca gcatgtaatg 480  
 gacttaaaat cccctgac 498

<210> 1674  
 <211> 441  
 <212> DNA  
 <213> Ctenocephalides felis

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<223> n = unknown

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<222> (436)..(436)

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<220>

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<223> n = unknown

<400> 1674

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catcctatta gattgggtct tgcacttaac ttttccgtagt tttattatga aatactaaat 180

tcacctgata aagcgtgtca acttgcgaaa caggcattcg atgatgcgat agcagagctc 240

gataccctaa atgaagattc atataaagat tcaactctca taatgcaatt gctgagagat 300

aacttaacac tgtggacatc agacacgcag ggtgatggag atgagcctca ggaaggcggg 360

gacaactagt cctgaaaacc ttacctatcc acttccgtagt tccttaattc acccttatac 420

aatcccttcg ttattnggna a 441

<210> 1675

<211> 173

<212> DNA

<213> Ctenocephalides felis

<220>

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<222> (27)..(27)

<223> n = unknown

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<223> n = unknown

<220>

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<222> (120)..(120)

<223> n = unknown

<400> 1675

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atcaagtgtg cgctgatcaa agtggatata tacagtgcac cactaaagaa agt 173

<210> 1676  
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<220>  
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 gcatgagacc gtcacgaata caagaattgg aagctttccc acagagttaa taatagcacc 180  
 tattatggga aatccaatcg catatccagc ttccaacatt aaagaatgca taaatgcctg 240  
 ttctttccatt gngtctttac actcggtcgt actattcgta gcatcaatgc ttagggcgga 300  
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<210> 1677  
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<220>  
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 ataatctttt agcattttcta atgcatcatc gttcaatgtt gcaccattaa cttttgcaat 180  
 tgtgcgtaaa gttttttcac atttcttcat ttttccccgg cttgctagcc atcttgggtga 240

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ttcnatcata tatttggttat taattaaaaa tattgcaaat ggcaatgaag aaactagaac	300
gaaatcaaac caattttctca accaccacat cagaagaggc attgtgcaaa ttccaaatgt	360
ccaccaatt ccttgcaaca tagcgacgtg tgagttttca tcaactggtcg atatttccat	420
tcctatgaca agaacagtct ggtataaaga catctgtggc agtgcagtca ccacatatcc	480
aaatacatat caataata	498

<210> 1678  
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aatttgatca tattgtgtat atacatagca atataaaata taaagttaca cattgtctgt	180
ttcattataa ctgtactgca aaattaatta ttttgattgn ttgttactgt attattaaag	240
ttattcagat tcagtcaaaa tttaaagtgt tggcctaaac ttattattga aatattgcca	300

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atagtgtatt attacttagc aattatgtat aaagatttta tttattaaag caatattcgg	360
aatgtctgta atatcataaa ttatgtatat aaataaatat atcaatgtga acaataacag	420
agaacataag ctcaaattca tcatactatg tctgaaaatt caaatataaa ttgntcttta	480
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<210> 1679  
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 <212> DNA  
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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaatg tataaaattg tattttatgt aaggagcaca aacaaaangt	420
cattaactat agtannttct gattatttaa aatatataa tatagaagct ttatgaaaaa	480
aaaa	484

<210> 1680  
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<210> 1681  
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 aaattattcc acaaattcccg catgagacca tcacgaatac aagaattgga agctttccca 180  
 cagagttaat aatagcacct attatgggaa atccaatcgc atatccagct tccaacatta 240  
 aagaatgcat aaatgcctgt ttttccattg tgtctttaca ctcggtcgt 289

<210> 1682  
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 gtaaattggcc aaggaggcta tgccactcct gtcaatgggtg gagttggctg gaaaaatgta 180  
 actttactnc tatcttctca gactggcaaa ggatttaact tcttanttga aatttgggga 240  
 tattagatta gaaatataat gaaaatgggtg aatatagaaa aaaaattaaa tataacaatag 300  
 tatttttaaatt ttggcacaca tctatctatg catccataaa taaagggttat atacagcatt 360  
 cattttataat ngnttaagaa ttataatgat tttatgangt ttagtatant gttaccaat 420  
 gtaaccacca atggcagnnt tataaatctn gngatatata tatgaggtaa attatatattcc 480

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498

<210> 1683  
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 ccttacataa aatacantnt tatacatttt antttttata catanttttt atattttaatt 180  
 gcacanatca tttgtgtatt tatttatatta attgactact ttatgataat ttgaatccta 240  
 attagtctat tcaagattgc nttcctgggt taagccttac ttagcaatct cacttttgca 300  
 ttcttcgccg ggtggcgtgg gtatgcatcg caactccgtt ttatcaaagt gcaagccatt 360  
 tggacaatca taangnttta tttgccattt gctgttaacc aagaaacatt gataatantc 420  
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<210> 1684  
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<220>  
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<222> (62)..(62)  
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<220>  
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 anatcaaaga tataagaatt agtgataaat tttaaagaaat aagagaacaa taaacatatt 180  
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<210> 1685  
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<220>  
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tagattctgg agtaaacaat atggaagcaa aggtttcatt tcaaacagct tgttttaaat	180
tgtaattgaa taaaattaat aaaaataat acatatatac aatgtgtagc actactgccc	240
ttggacaggt ccgtccaact tgacaccatc cacatagggtc ccgcgcgtta gcgacctcg	300
tcactacaac cttatatataa gaaagcccac ctagtgtgaa attttcagaa aatcgnantt	360
ttgacttttc cgtntttcga taagttaaac ctttaaaaat aatcacagtg ctgatcaagc	420
tttccgacaa acgcaagaac atatcaataa actcaaagt ggcttgccaa aatggaagat	480
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<210> 1686  
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 <212> DNA  
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 <223> n = unknown

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ttgcacaagc cgtcacaact gttgctggta ttngtcata tccattcgac actgtccgta	180
ggcgtatgat gatgcagtct ggacgtgcaa agtctgaaan gttgtacaag ggaacactgc	240
actgctgggc caccattgcc aagacagaag gaagtgggtc cttcttcaag ggagctttct	300
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<210> 1687  
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 <212> DNA  
 <213> Ctenocephalides felis

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&lt;223&gt; n = unknown

&lt;220&gt;

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&lt;222&gt; (355)..(355)

&lt;223&gt; n = unknown

&lt;400&gt; 1687

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cactctatct tctaacctaa ngcgtaacttt ccgctttaca gaacttcttt aataggtaat 120

acttttaatt gcagccgtat catattatag cttgtangtg ttatatTTTta tttgtaantn 180

gttggtcata tttctcaa ac gattgntcat gtattacaca gtattaaaat aaaccttgga 240

tgcaataatt gttataacaa cattgtcggt agtaataaaa nnttatcagt ggattataat 300

ngtaatntgn tttatccttg tatgtttatt gttgcattga tataaacagt agcanattat 360

aacaataaaa tcaacttccc aattcttggg aatata 396

&lt;210&gt; 1688

&lt;211&gt; 474

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (56)..(56)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (391)..(391)

&lt;223&gt; n = unknown

&lt;400&gt; 1688

tgaaatgtga agacgacgtc aacgattggg ttgacccaaa atctttctcg tacagnctg 60

catgcaaaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt 120

tcttggttaa caacaaatgg caaataaaaac attatgattg tccaaatggc ttgcaacttg 180

ataaaacgga gttgcgatgc ataccacgc caccggcgga agaacgcaa agtgagattg 240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300

ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360

tatgtataaa aattaaaatg tataaaattg nttttatgta aggagcacia acaaaatgtc 420

attaactata gtacttctga ttatttaaaa tatataaata tagaagcttt atga 474

&lt;210&gt; 1689

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 ggtgttggaa gcaatgttgt aggaatantt ctagattata nttgcgattt aacattttta 120  
 atatcaggaa catctctgat agcatgtgga gtgattgcnt tctttatacc gaacatttat 180  
 cagaagcang tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcant tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360  
 tattagattc gatgtaagat atatgt 386

<210> 1690  
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 ggtagacaca caaattgctg tatcagtctt tgaccagcct aatgcaaaca gatacattgt 180  
 ttgaatagca gaaaatgcta tgtcggagta tagtgcaa atgactccaa taaccatatt 240  
 tacataaatc cagtctttta acaaagttaa atccaaaaag tnaacgataa cttgcaattt 300  
 tctnctagat ttcttntcta ccggtgcagn 330

<210> 1691  
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 <212> DNA  
 <213> Ctenocephalides felis

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 agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa tcgataatac tttctcaaag 120  
 tataattgcn tttcacaaca cagcagcgaa atatgggtat ggtccatatg aagcaatgct 180  
 cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
 tgctatcaga gatgttctctg atattaaaaa ngttaaatcg caattataat ctagaattat 300  
 tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatac 360  
 tgccattgcc ctgagttgtg taggggtacan atctactaat gccgcgttta ccaactgtcac 420  
 agcaattcgc aaaccagcaa ccacaaatat aaatatgagc tattgntaaa tgggtcaataa 480  
 aagcacaaat tattccac 498

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caatagcaac ctctgcctga aaattaaccg aacaaaacttc taacatcctt attaattgat 180
agattttgaa taataacata gaaatcatac tatttttttg atgactctaa taaaaaaatg 240
tataaatagc catgcctgat atatttttga tgaccttaat aaaaaaatgt tttaatggcc 300
atgtctgaaa agattttctat gtgtnttttt ttgttaacat tttattgttg aatggataaa 360
ag 362

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<210> 1693
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caaagacaat gt 132

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<210> 1694
<211> 386
<212> DNA
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agaaaatgat tcagtagcaa cttctgantt ttctttgtan ttgataatac tttctcaaag 120
tataattgca tttcacaaca cacgacggaa atatgggttat ggtccatatg aagcaatgct 180
cgttctttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240
tgctatcaga gatgttcctg atattaaaaa tgtaaatacg caattataat ctagaattat 300
tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatat 360
tgccattgcc ctgagttgtg taggggt 386

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<210> 1695
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<223> n = unknown

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<220>
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<223> n = unknown

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aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt 120
acacatattt ttagaatgat catatacata gttaggtggg cattcgaaaa cctgaccttt 180
accatctttg cagaataagt atcttgtgcn gtctttcgna tctggctgat atcctacaac 240
cgcgcatgta gtttctgccg tcttacagtt ttccccaggt tttgatgagc acatgtcatc 300
tacacaaaat ggagcatcgg aatttgagtt tctgcaattg attgntgnaa ttgggggtctc 360
ttgtccagcg cacaacttca aagtagaaca atcgtgacaa aatgttccca actgcttatt 420

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aagt

424

<210> 1696  
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 gnataattgc ntttcacaac acacgacgga aatatgggta tgggtccatat gaagcaatgc 180  
 tcgntcttct atncacttgc ttctgataaa ngttcgggtat aaagaatgca atcacttcac 240  
 atgctatcag agatgttcct gatattaaaa atgttaaatn cgcantnta atcnaagaat 300  
 tattnctaca acattgcttt caacaaacac tttctaatacg acccaatcat taaagatata 360  
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<210> 1697  
 <211> 173

<212> DNA  
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 atcaagtgtg cgctgatcaa agtggatata tacagtgcac cactaaagaa agt 173

<210> 1698  
 <211> 387  
 <212> DNA  
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 agaaaatgat tcagtaacaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag 120  
 tataattgcn tttcacaaca cacgacggaa atatggttat ggtccatatg aagcaatgct 180

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cgttcttctta tccacttgct tctgataaat gttcggtata aagaatgcaa tcactccaca	240
tgctatcaag agatgttcct gatattaaaa atgttaaadc gcaattataa tctagaatta	300
ttcctacaac attgcttcca acaacacttc ctaatcgacc catcattaaa gatatacata	360
ctgccattgc cctgagttgt gtaggggt	387

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tgggaaaatg ttcttcagac aatttgaata aatgggaatc cagattggaa gaaattaatg	180
atgttgtgga aaattgcacg gtgtgaaatt gtaacttgaa atantttttc ttaactatta	240
gttttataga tgaacaaata catnatctaa taaaccagca	280

<210> 1700  
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ncacaaaatt attaaaacta tataaatata atacangtcc atcataggta tgactacttt 180  
 cgacgaaata ttcataattt ngaccaacta ccctctttca taattntgac catattatca 240  
 agttaaccca nacttatctt aaatangcga tatga 275

<210> 1701  
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 ctaaaaaatca catctttacg ttttatgatt taacaatata taaccaaaga gggtgcacag 180  
 caataagcat tgtttcatac ttcacacata aataaattaa ataaaaaaga aaaccaatcc 240  
 tgcagntttt atgcattaga aaatatgcgt gcaacctatt ttccttatca tttttaagg 300  
 gggatgtcta taaaatggt attttagcaa acagttatag atattgtatt cgctaaagg 360  
 atctttgaga ttcccagagc atgttcact gctcaagcag tgcntttctg taacggtgtt 420  
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<210> 1702  
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 <212> DNA  
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 gcagtattat ttttacatca atttaaacad cactaaaatc aaacacctaac ctcaaaattt 180  
 cactaagtga aaatgttgaa gactttatct aatcaaagng tacgacaaaa cagcactaat 240  
 gcctccttag taagtacagt ttttcacaat agaaacccta gaaatttaga acgaatgagg 300  
 attgcttata aacctgatgg atggcaagta gataaacctg gacgctcatt ctggcacaaa 360  
 ttagagttaa ctgaaagctc tcgatatata actgcacgag tgggtgcattg gaaggaaggc 420  
 cctgt 425

<210> 1703  
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aaaatctaaa aacantttta attagcaaaa ccaagtgtat ttgaatttca tttttgcaca	120
agttaccttt ttgtattaaa atatatgtat atttatgaat atgtatttct tgtatttttag	180
gttaaattcg ttatagaata atttggaaat acatattcat aatgctaaag tattaaattg	240
gcttttttcc attaaaatcc tatttaacat tatacatata ttttattgnc aaatgtgagg	300
cggatatggaa tcacgggtgg ctgctttctg agtagtcgaa ccttttaggc aaaaattgtg	360
tanatcaaaa ctcaagttct acaatcttga gctcatccac attctcagaa catccatgta	420
tttaaggtaa cttattgtat ttaacagctt ttgagggaaa tactg	465

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 aataaatttat natctctttc actacatata ttacaatcaa cattttattaa ataagtgttg 180  
 aatttatttta ttgtgcaa ataatatgc tttccatgtt ngtaatcaat ttattaattt 240  
 aattgtatta atttgtcgnt tttacctaca catttttagct actggtaagc taggcataat 300  
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<210> 1705  
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 tcctaattag nctattcaag attgttttcc tggnttaagc cttacttagc aatctcactt 240  
 ttgcattctt cgccgggtgg cgtgggtatg catcgcaact tcngttttat caaagtacaa 300  
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 gataaaacgg agttgcatg cataccacg ccaccgcgcg aagaatgcaa aagtgcagatt 240  
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 tcataaagtn gtcanttaat ttaataaat ncacaaatga tctgtgcaat taaatataaa 360  
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 acgctgggat tgagtggat gatttctgta atgcctgggt ttatttcgcc tgctatcggt 240  
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 acagcaatgt tggtcgnttg tggactttta tatttgngt ttgcggattc caatctacaa 360  
 tcctggaaca gtccagataa aattgtccaa gaccccgaag aaattgttcc aatgacagaa 420  
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 ctaagtaagg cttaaacag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaaagtag tcaattaata taataaatac acaaatgatc tgtgcaatta aatataaaaa 360  
 atatgtataa aaattaaaat gtataaaatt gntttttatg taaggagcac aaacaaaatg 420  
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 ggcacattta tttttggaca attaggagat aggattggaa gaagaccagt attttactta 240  
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 tgctatcaga gatgttcctg atattaaaaa tgtaaatacg canttataat ctagaattat 300  
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 cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
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ttcgcccgta ccagattggc cgctgatgta ggtaaaggcg ctggtcaacg tgaattctct      180
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gagaaatgga ttacctccca tattgctcac gttcaaaaatt aatgtaaaat acgtcacgga      420
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 tatttacgaa gtttcactnc tcccgacta tttttttttt ttgcaaataa atttaagatt 360  
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 taaaaagaaa tcgtnagaag ctgattgcac cgtcatgaaa tgcacaaatc ccanttcttt 360  
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tttttttttt tttttttttt ttcataaagc ttttatnttt atatntttta aataatcaga      60
agttactata gttaatgacn tttncgtttg tgctccttac ataaaataca nttttataca      120
tttnaatttt tatacatatt ttttatattt aattgcacan atcatttgng tntttattat      180
attaattgac tacttttatga tantttgaat cctaattagt ctattcaaga ttgntttcct      240
ggtttaagcc ttacttagca atctcacttt tgcattcttc gccgggtggc gtgggtatgc      300
atcgcaactc cgtttttatca aagtgcaagc catttggaca atcataangt tttatttgcc      360
atttgtngtt aaccaagaaa cattgataat atttttttaca at                          402
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<210> 1724
<211> 411
<212> DNA
<213> Ctenocephalides felis
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<222> (26)..(26)
<223> n = unknown
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<223> n = unknown
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<223> n = unknown
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<223> n = unknown
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<223> n = unknown
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<223> n = unknown
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 <223> n = unknown

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<220>  
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<220>  
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<400> 1724  
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 gtaatttcat aaagctncta tntttatata ttttaaataa tcagaaatta ctatagttaa 120  
 tgacatntng tttgngctcc ttacataaaa tacaatttta tacattttta tttttataca 180  
 tatnttttat atttaattgc acanatcatt ngngtattta ttatattaat tgactacttt 240  
 atgataattt gaatcctaatt tagtctattc aagattggtt tcctgggtta agccttactt 300  
 agcaatctca cttttgcatt cttcgccggg tggcgtgggt atgcatcgca actccgtttt 360  
 atcaaagtgc aagcccattt gggacaatca taangtttta ttttgccctt g 411

<210> 1725  
 <211> 407  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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<220>  
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<223> n = unknown

<220>  
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<222> (102)..(102)  
<223> n = unknown

<220>  
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<222> (117)..(117)  
<223> n = unknown

<220>  
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<223> n = unknown

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<223> n = unknown

<220>  
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<220>  
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<223> n = unknown

<400> 1725

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cataaaaatac aantttatac attntaattt ttatacatat cnttttatatt taattgnaca    120
natcattcgn gttatttatta tattaattga ctactttatg ataatttgaa tcctaattag    180
tctattnaag attgtttncc tggtttaagc cttacttagc aatctcactt ttgcattctt     240
cgccgggtgg cgggggtatg gancagnac cccccgcttt atcaaagngc aagccatttg     300
gacaatcata acgtttttatt tgccatttgt tggtaaccca agaaacattg ataatatnt     360
ttacaaatct cttccatcgg gaaaaaacct tttccctttt gcatgcc                   407

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<210> 1726

<211> 448

<212> DNA

<213> Ctenocephalides felis

<220>

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<222> (29)..(29)

<223> n = unknown

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<222> (57)..(57)

<223> n = unknown

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<222> (149)..(149)

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<222> (414)..(414)

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<223> n = unknown

<400> 1726

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aattggaata tcacaacacc atcagctang tctgaatata accaattaac atgtggngaa      60
acgccccatag aattcatcca attccggtaa gttttttctt cgcggggtctc ttccacagtc    120

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tctaataccct ctatttcgcc ttctggacna tctaatactg gatgggtgtt gaacaagttg	180
gctacgaacg ctaaattcaa cttataaacg ccattaacaa catctgctgc tgttaciaag	240
cttctgcatt tgagtttagc agcttgttgc agcatgatct cagctctctt tgtcatactt	300
tgttccatga gagcttcgtt cgtaacttga gcttctggag gtgcaatttg tttcaacaga	360
atagtataaa cctctgaatc cgaaatgtcg acttggaagt tattggaacg tctnatagtt	420
ncagcgggtg naagatgatg atttacc	448

<210> 1727  
 <211> 485  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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catgcaaaag tgaaaacgtt ttttcgcatc gaagagattg taaaaaatat tatcaatgtt	120
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gttgcatgc ataccacgc caccggcga agaatgcaaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaaatg tataaaattg cttttatgta aggagcacia acnaaatgtc	420
attaactata gtaatttctg attattttaa atatatnaat attgaagctt tttgaaattt	480
aaaaa	485

<210> 1728  
 <211> 305  
 <212> DNA  
 <213> Ctenocephalides felis

FC-8-C3.ST25.txt

<400> 1728  
ggcattcgac gttctgcatt ctttaacgata cctattatct gttttcaaact cttggggttct 60  
ccttgtaatt agtgattgaa tgatttttagc cttcttgta gtccggatgt atggggttagt 120  
cgtgtgctgt tattaattta gtgaaatgta ttgaacaaa tggcttaact tcatagcgct 180  
atactcacct ctctgttata tttctgactc tttatatata catgggtatgt atatatgtat 240  
gtatatatat atatatatac atatgcatat atctgtttca ctagtcaaca ccttaaagt 300  
gatgt 305

<210> 1729  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<220>  
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<223> n = unknown

<220>  
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<223> n = unknown

<220>  
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<222> (472)..(472)  
<223> n = unknown

<400> 1729  
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agaaacccca attacaacaa tcaattgcag agactcaaact tccgatgctc ctttttgtgt 120  
agatgatatg tgctcatcaa aacctgggga aaactgtaag acggcagaaa ctacatgcgc 180  
ggttgtagga tatcagccan atccgaaaga ctgcacaaga tacttattct gcaaagatgg 240  
taaaggctcag gttttcgaat gccacaccta ctatgtatat gatcattcta aaaatatgtg 300  
taaaaagaaa tcgtcagaag ctgattgcac cgatcatgaaa tgcacaaatc ccaattcttt 360  
tataacctatg caccggaccc atcaatttat gcttggtgca atgacaaatt gcaaccgat 420  
cgtactgaaa tgtgaagacg acgtcaacga atgggttgac ccaaaatctt tntcgtgcag 480  
aactgcatgc aaaagtga 498

<210> 1730  
<211> 500  
<212> DNA  
<213> Ctenocephalides felis



<220>  
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<220>  
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 <223> n = unknown

<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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 <223> n = unknown

<400> 1730  
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 catgtaattt cataaagctt ctatatttat atatttttaa taatcagaaa ttactatagt 120  
 taatgacatt ttgtttgtgc tccttacata aaatacantt ttatacattt taatttttat 180  
 acatattttt tatatttaat tgcacanatc atttgtgtat ttattatatt aattgactac 240  
 tttatgataa tttgaatcct aattagtcta ttcaagattg ttttcttggt ttaagcctta 300  
 cttagcaatc tcaacttttgc attcttcgcc gggtagcggt ggtatgcac gcaactccgt 360  
 tttatcaaag tgcaagccat ttggacaatc ataatgtttt atttgccatt ggtgttaacc 420  
 aagaaacatt gataatatnt nttacaatct cttcgatcgg aaaaaacgnt ttcctttgca 480  
 tgcagttctg cacganaaag 500

<210> 1731  
 <211> 498

<212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (467)..(467)  
 <223> n = unknown

<220>  
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 <222> (485)..(485)  
 <223> n = unknown

<400> 1731  
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 tgggcgctgg tttggccgta ggattttccg gcttggcggc ggnttttgcg attggaatcg 120  
 ttggtgatgc tggagtacga ggaacagccc aacaacctcg tctgtttggt ggaatgatct 180  
 tgatcctgat cttcgctgaa gtattgggtc tatatgggtct tatcgtagcc atctacctct 240  
 acaccaaata aacaaattat tatggatttc aagatacaca agtcgcctgc ctcccaaadc 300  
 ccctaataata tatgcagcag tgcagtctgt ctattatatt tgccactcac acttaaaaat 360  
 atagtggctg taccgntatt tatattatat tgcttataca gaaagcactg ttgtatgaaa 420  
 agtatctgaa atcaacacat ctcattgtaag ggtactttat tgtaaangtt attttatatg 480  
 taatntttta ataacatt 498

<210> 1732  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (487)..(487)  
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 tttgngctcc ttacataaaa tacantttta tacattttta tttttataca tattttttat 120  
 atttaattgc acanatcatt tgtgtattta ttatattaat tgactacttt atgataattt 180  
 gaatcctaata tagtctattc aagattgttt tcctggttta agccttactt agcaatctca 240  
 cttttgcatt cttcgccggg tggcgtgggt atgcatcgca actccgtttt atcaaagtac 300  
 aagccatttg gacaatcata atgtttttatt tgccatttgt tgttaaccaa gaaacattga 360  
 taatatTTTT tacaatctct tcgatcgga aaaacgtttt cacttttgca tgcacttctg 420  
 cacgagaaag attttgggtc aaaccattcg gtgacgtcgg cttcacattt caagtaccct 480  
 tggncgngac cccgctaagc 500

<210> 1733  
 <211> 159  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

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 aaagccagaa cacaagtgtg gacaccagaa tcagagttaa atcttaccag aaatatgtgg 120  
 agcgtgtgaa ttatgtaaat atttgtgcaa cgcatatgt 159

<210> 1734  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (213)..(213)  
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<220>  
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 <222> (220)..(220)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (259)..(259)  
 <223> n = unknown

<220>  
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 <222> (340)..(340)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (495)..(495)  
 <223> n = unknown

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 aagatacatg tacttttcata aagcttctat atttatatat tttaaataat cagaaattac 120  
 tatagttaat gacattttgt tngtgctcct tacataaaaat acantttttat acatttttaatt 180  
 ttttatacat atttttttata tttaattgca canatcattn gngtattttat tatatttaatt 240  
 gactacttta tgataattng aatcctaatt agtctattca agattgtttt cctgggtttaa 300  
 gccttactta gcaatctcac ttttgcattc ttcgccgggn ggcgtgggta tgcattcgcaa 360

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ctccggtttta tcaaagtgca agccatttgg acaatcataa tgttttattt gccatttgtt 420  
 ggcaaccaag aaacattgat aatatttttt acaatctctt tcgatcggaa aaaaacgttt 480  
 tcacttttgc atgcncgttt 500

<210> 1735  
 <211> 486  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (434)..(434)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (477)..(477)  
 <223> n = unknown

<400> 1735  
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 catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaat 360  
 atgtataaaa attaaaatgt ataaaattgt attttatgta aggagcacia acaaaatgtc 420  
 attaaactata gtantttctg attattttaa atatataaat atagaagctt tatgaanggt 480  
 aaaaaa 486

<210> 1736  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (65)..(65)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (85)..(85)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (134)..(134)  
 <223> n = unknown

<400> 1736  
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 tttgngctcc ttacataaaa tacantttta tacattttta tttttatata tattttttat 120  
 atttaattgc acanattcatt tgtgtattta ttatattaat tgactacttt atgataattt 180  
 gaatcctaatt tagtctattc aagattgttt tcctgggtta agccttactt agcaatctca 240  
 cttttgcatt cttcgccggg tggcgtgggt atgcatcgca actccgtttt atcaaagtac 300  
 aagccatttg gacaatcata atgtttttatt tgccatttgt tgttaaccaa gaaacattga 360  
 taatattttt tacaatctct tcgatcgga aaaaccgttt tcacttttgc atgcagttct 420  
 tgcacgagaa agattttggg tcaaaccatt cgggtgacgtc gtcttcacat ttca 474

<210> 1737  
 <211> 294  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (34)..(34)  
 <223> n = unknown

<400> 1737  
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 cttgttcata atcatcagca cgagccagag cagctaaacc gtctgggttt agtttaccac 120  
 aacgggggta caatttagca cgatcatcct tgctcaattc agttccaaac gagttgattg 180  
 ttatgattat ggcacgtctg tcagcttcaa aagctaatat ttcacacatt gtatcagctg 240  
 tggatccacc aagtccttg caaaactcat aaaatgcctc aagataggct ttgt 294

<210> 1738  
 <211> 361  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (285)..(285)  
 <223> n = unknown

<220>

<221> misc\_feature  
 <222> (325)..(325)  
 <223> n = unknown

<400> 1738  
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 aaaggttgca ttaaataac aactagcagc agccagagtt tcaactgatg ttggcattaa 120  
 agtaggagaa gccctcagga atgtcgtgga acttcgttta aatttgaggaa aatgttcttc 180  
 agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg 240  
 catcgtgtga aattgtaact tgaaataatt tttcttaact attantttta tagatgaaca 300  
 aatacataat ctaataaacc agcangtgaa cttcaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
 a 361

<210> 1739  
 <211> 259  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (93)..(93)  
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<400> 1739  
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 gccagaagtt gtatagcaca cagcatgatg cantttttca aatgtggtgc ataaaataaa 120  
 ggcttgaatt gtttgaaacc agctttaaga gcttccattc cttcagggtt gggagaacca 180  
 tcttggtcat tggctttggt ttcttcacc agttgtttta ttggatattc agtcttgtca 240  
 ttccaatgat taatcctgt 259

<210> 1740  
 <211> 361  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n = unknown

<220>  
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 <222> (53)..(53)  
 <223> n = unknown

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<400> 1740
aaaatcgaat cgttggtggc aatgatgtaa gtntttcaaa aaatgggtgg cangtatcag      60
ttcaaagtaa taaccaacat ttctgtggtg gttcaatcat tgctaaagat tgggtgctga      120
cttcttctca atgcgctcgtg gacaaacaaa gtccaccgaa ggatttaact gttcgtgttg      180
gaactagcac tcacaatgat ggaggaaaag tgtatgatgt tattgaaatt ataaaacatc      240
cgaaatataa taaagcagtg ccagatgatt ttgatgttgc acttttacgg atcaaagagc      300
caatatcatt tactccatgc acagtaactc ctgtaaaatt aatacaatcg ggaaaagaag      360
t                                                                                   361

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<210> 1741
<211> 480
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (26)..(26)
<223> n = unknown

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<220>
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<222> (52)..(52)
<223> n = unknown

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<220>
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<222> (80)..(80)
<223> n = unknown

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<220>
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<223> n = unknown

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<220>
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<222> (104)..(104)
<223> n = unknown

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<220>
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<222> (165)..(165)
<223> n = unknown

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<220>
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<222> (198)..(199)
<223> n = unknown

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<220>
<221> misc_feature

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<222> (243)..(243)  
<223> n = unknown

<220>  
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<220>  
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<222> (452)..(452)  
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<400> 1741  
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acataatatt atataattan ttttaciaat gngtttttata aatnttggtg atattaggat 120  
agggtgacag taggattctt tagtagaaca tgtttttattt aatancctta cataatatca 180

```

acaccttttaa aaatacannt tctttttatta ccaggattga aataatactt tatcattcgt      240
atntttataa tagtaaacgt aaacttcaaa ttttgagaga aacatcagct caccttntca      300
tcaatcagaa aaatgatatc agcaaaaacaa agnaatctaa gaaaaagtcg ntttgaaact      360
cattaaagtt taaataaggn tttggntttt tcgnnttttc gaaattaata ttaatgtttc      420
tgaaaaactaa ngttcncctt gagnccaaat gncctagata ttcgatcatt tttaaaataa      480

```

```

<210> 1742
<211> 386
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 1742
cctacacaac tcagggcaat ggcagtatgt atatctttta tgatgggtcg attaggaagt      60
gttggttgaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta      120
atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat      180
cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt      240
cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcgattacaa agaaaattca      300
gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt      360
tattagattc gatgtaagat atatgt                                           386

```

```

<210> 1743
<211> 131
<212> DNA
<213> Ctenocephalides felis

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```

<400> 1743
cttttgcatg taggatccaa tggatcgaga aatagtccaa ctcttggaac aatgaatgg      60
tgctgccaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagactcc      120
aaagacaatg t                                                              131

```

```

<210> 1744
<211> 131
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (34)..(35)
<223> n = unknown

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<400> 1744
cttttgcatg taggatccaa tggatcgaga aatnntccaa ctcttggaac aatgaatgg      60

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tgctgcaaaa tacgaacgct gctggaatgt gtttcaactg gaattagttc ttgagactcc 120  
 aaagacaatg t 131

<210> 1745  
 <211> 323  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1745  
 gggaacgaaa agaatcggcc aaatgcatgc aaaagggttg attaaatata caactagcag 60  
 cagccagagt ttcaactgat gttggcatta aagtaggaga agccctcagg aatgtagtgg 120  
 aacttcgttt agatttggga aaatgttctt cagacaatgt gaataaatgg gaatccagat 180  
 tggaagaaat taatgatgtt gtggaaaatt gcacgtgtg aaattgtaac ttgaaataat 240  
 ttttcttaac tattagtttt atagatgaac aaatacataa tctaataaac cagcaagtga 300  
 actaaaaaaaa aaaaaaaaaa aaa 323

<210> 1746  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (62)..(62)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (156)..(156)  
 <223> n = unknown

<220>  
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 <222> (405)..(405)  
 <223> n = unknown

<400> 1746  
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tncgatagtt aatgacattt cgttngtgct ccttacataa aatacacttt tatacatttt 120
antttttata catatTTTTT atatttaatt gcacanatca tttgtgtatt tattatatta 180
attgactact ttatgataat ttgaatccta attagtctat tcaagattgt tttcctgggt 240
taagccttac ttagcaatct cacttttgca ttcttcgccg ggtggcgtgg gtatgcatcg 300
caactccggt ttatcaaagt gcaagccatt tggacaatca taatgtttta tttgccattt 360
gttgttaacc aagaaacatt gataatattt ttacaatct cttcnatcgg aaaaaaccgt 420
tttactttt gcattgcagt ctgcacgaga aagattttgg gtcaaaccat tcgttgccgt 480
cgtcttcaca tttcaagt 498

```

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<210> 1747
<211> 498
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (34) .. (34)
<223> n = unknown

<400> 1747
ggatatctgg cgtcatatgt ggttcccaag tatncaatgt atgggcctaa tactcctaatt 60
gcatttgaaa ctatagttcc aatggaaatt cctgtctgcc tcaaacaggt tggatatgtt 120
tccattgctt gcagattcac aacataaaac gtgatgctta tgcaaaattt cattaccacg 180
gctaacagtg ataccaaatt ctggagggat tcatcattgg caatgcatat aagaatggaa 240
gatgctgcc gagcaattcc aaaagaagct acagaggtcc aacgtcttcc tattctgtcg 300
ctggagaaac gtcctagtag atatgctggg aattctactg ccgattgata taaaagttg 360
agaaatggat tacctcccat attgctcacg ttcaaaatta atgtaaaata ccgtcacgga 420
acatacaatc cagcaaagca caataagtgt agtatttcta gctaaacgta aactagaaaa 480
taaactcatg attccgta 498

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```

<210> 1748
<211> 498
<212> DNA
<213> Ctenocephalides felis

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```

<220>
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<222> (28) .. (28)
<223> n = unknown

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<220>
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<222> (150)..(150)
<223> n = unknown

<400> 1748
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tactacaggt atctagctga agtagcaaca ggagaaaccc gtaacaccgt cgtagatgat      120
tcacagaaag cttatcaaga tgcatttgan atcagcaagg ccaaaatgca gcctacacat      180
cctattagat tgggtcttgc acttaacttt tccgtatttt attatgaaat actaaattca      240
cctgataaag cgtgtcaact tgcgaaacag gcattcgatg atgcgatagc agagctcgat      300
accctaaatg aagattcata taaagattca actctcataa tgcaattgct gcgagataac      360
ttaacactgt gggacatcag acacgcaggg tgatgggaga tgagcctcag gaaggcgggg      420
acaactagtc ctgaaaacct tacctatcca cttccgtatc cttaattcac ccttatacaa      480
tcccttcggt atttggtgta      498

<210> 1749
<211> 215
<212> DNA
<213> Ctenocephalides felis

<400> 1749
agactgaccc tggggcccagg cgtttgctta acagtgacgt taaaggcgac caaccaccgt      60
caacgaatga tgaaataagc ccatccacaa ctgctccaag ttcaaactg aatgaaagca      120
atggaaacct caccaaata caacccttaa gccaaaatac ttcaacaaat actccattag      180
aaacatcaaa tacctcacta gcagaaagca gcagt      215

<210> 1750
<211> 207
<212> DNA
<213> Ctenocephalides felis

<400> 1750
agagaggatt caggaaagct cttcttcgtc gcctgatttt ggagccgagt tggttcaacc      60
aattcaccag gatcgtgaat ctaatgaaca tgaagaacaa ttcaacaagc accatcatca      120
caagcaacac aaagctgatt atatgaatca catgagagtc accgacactt cggcaatcat      180
ggctgggttct tttgctgtga tagcggt      207

<210> 1751
<211> 386
<212> DNA
<213> Ctenocephalides felis

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<220>  
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 <222> (27)..(28)  
 <223> n = unknown

<400> 1751  
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 agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag 120  
 tataattgca tttcacaaca cacgacggaa atatggttat ggtccatatg aagcaatgct 180  
 cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcactccaca 240  
 tgctatcaga gatgttcctg atattaaaaa tgttaaactg caattataat ctagaattat 300  
 tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatac 360  
 tgccattgcc ctgagttgtg tagggt 386

<210> 1752  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1752  
 tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg 60  
 catgcaaaag tgaaaacggt ttttccgata gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480  
 acatgtatct ttttaata 498

<210> 1753  
 <211> 210  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (12)..(12)  
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<220>  
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 <222> (26)..(26)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (57)..(57)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (78)..(78)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (135)..(135)  
 <223> n = unknown

<400> 1753  
 aaggtttcaa angtcggtca ccataccttat tttatccaaa tataaatgat tgtcagngct 60  
 attattattg tgacgaanat agtataggaa cccaatatta ttgccccgca aattttgcat 120  
 atgatccgtt acgtnataat tgcggaccta tggctctggg cacaaaatgc tatacagtta 180  
 catgtcctgc acagcctaag gtgcttcctg 210

<210> 1754  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown

<400> 1754  
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 gcggaaacca ggaaatataa tccagctaaa acttgacctt tggatcacg tgccagtaat 120  
 gaacggaagt tgtatactaa attacgcctt actgtcacat ccactgcagt ataataaggt 180  
 ttatgcacat atactagaga taccactaga tttgtagttg ttctctcttc tttaatagtt 240  
 ctgtgttggtc gttcatgcca ttcaacataa tgagaagatt gagtgctata agcatagcaa 300  
 tatttcgcgtt tgcttcacc tggcccttca tcacattgtg taaaccaacc cgtatgtgga 360  
 tatttttcat cagccattac tgtcactact cttgcgacgt gatatcctgg atcaciaagg 420  
 actacacctt ttctttcatt tatgcaaata gaatagcaac catacgtgtt ctttttctaa 480  
 ggcgccgcct ggagccct 498

<210> 1755  
 <211> 396  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
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 <223> n = unknown

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 <222> (163)..(163)  
 <223> n = unknown

<400> 1755  
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 cccctgaacc aactttgcat gtgtaagagc cagcatcatc ttgttcagtt ttttcaataa 120  
 tgaattgatg ttcttccttt attaattgat aacggtcctt ganatcattg atttcttcta 180  
 cttttttctc atctttaaac cactgatcaa caggaccatc tttcaatgga cagggttagaa 240  
 ccaatggact gcgaatatca aaaagttttt gcgacgtggc ttcaccttct ctggcataaa 300  
 cactgctttg gaccaaaaat aataaaaattg cactacacaa aaactgcttc atatttattg 360  
 aattttcttc ccctcgattg aaatagttca taaagt 396

<210> 1756  
 <211> 232  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(34)  
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<220>  
 <221> misc\_feature  
 <222> (75)..(75)  
 <223> n = unknown

<400> 1756  
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 tttggtgagc tctgntttgg ctttgctcgg gtcttcgggg gatttgaaat ttgttgataa 120  
 gcggaagaag aacaggctag ggcgctcatc aggggttagt tccaaaactt tgtcagataa 180  
 agcggttgagg acaccaagt ctttcacaaa cttctctgggt aaatcacttt gt 232



<210> 1757  
 <211> 475  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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 <222> (429)..(429)  
 <223> n = unknown

<400> 1757  
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 naaggattgc aaaaagactg acagatttgt aatacagatt ttggacattt ggacttttaa 120  
 tatttttaaat atatttggaa ccataagttt tgtgtcggg gacgtcactt aatcacgtaa 180  
 tcgatttttt tgaaaatttt tgaaatcccc tttccctct gtgaaaccgt atattgaaaa 240  
 ttaccctcct ccgaaaaaaa tcgtaaaatt ttcaattttt ttttttttt tgaaaatggt 300  
 tgcaatcttt attacaaatc tcagtttaat tttgtcaact aatttggacc tacggtaatt 360  
 ataaagtatc ctatattagc ccactgtacc aattatagta aatttaatta ctaattattc 420  
 atcatttgng gcaccgtcag cttgtaatta gtaattaaaa tttactataa ttggt 475

<210> 1758  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (23)..(23)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (60)..(60)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (267)..(267)

<223> n = unknown

<400> 1758

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tttttttttt tttcttgtaa ctntatattt tntattgcta tgtatatata caatatgatn      60
aaattttaaac agttaaatg aatttattag attatataaa actgaaaatt atcatggaat      120
gtaatttaaaa atcacacaga aaaaaacaaa tataataata aaatttgata atatttcaac      180
aacttgtagc tagtacggca gaatactggt tcacaacaac atactttcat ttaacaata      240
gaatcattat ttataagta tctacanttt ctttaacat taaaacatgt cttcatgttt      300
tccttacatt aaggatgtgg ttagtaccag acatcccaaa aactgattta atattcttta      360
catggagaag acaacatata aagggaata aaatatggta ttgatggaaa ctttagtaag      420
atttttaatg acgagaatca cgtgggtaaa actcggcgag ggtggaagcg ggtattctct      480
tcaacatctc ctggggaaga .                                         500

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<210> 1759

<211> 498

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (49)..(49)

<223> n = unknown

<400> 1759

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ttaagacttc ttctctacac atccaattca tacaaaactt cttaaagtana tccaaaagaa      60
tcgaacaata tcttcaaatt gaagaatttt atcaaatata tactgtaaaa gaaatgtgta      120
aagggttcat ttgcaatgca ctactatgaa agtaggcata catagagtga tgaaagctag      180
ctgatacgga ttattcaact ctcacgattt cagaaatcaa ccatggcatg cgtttcgggt      240
tccaatttag tgacatcaca tgaatgcaa tcacatatag aagacggacg tatagacata      300
atgtgttgca aaatttaaac catctggaaa gggttttaatc atgaaaatat gcaattatta      360
ttaaagtatt ataaatgcag atatcctggt tccagttgtg aacagttccg actttaaatg      420
gtggtgacaa atgatttaag ttaaacataa gcaagttcct caaactcaga gtcattatgc      480
tcttataatt aattccat                                           498

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<210> 1760

<211> 295

<212> DNA

<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (35)..(35)
<223> n = unknown

<220>
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<222> (147)..(147)
<223> n = unknown

<400> 1760
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caccaaacgt catacagaca ctatatattgc taactgttgg atctgtaata aaatttatct      120
tttaatatata aattcatttt atacgngta tatgtaactg caatcctatt atatttgaag      180
aaacacatat gtaagaaatg caataccgat gaaaaaattc gatatcggtta tttcgctttt      240
ataagcggta atattattat tttatgaggt gtaaacaaaa ttaaaattga cttgt          295

<210> 1761
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (29)..(29)
<223> n = unknown

<220>
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<222> (411)..(411)
<223> n = unknown

<220>
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<222> (482)..(482)
<223> n = unknown

<220>
<221> misc_feature
<222> (490)..(490)
<223> n = unknown

<400> 1761
tttgtttttc ttttaattga tgcttgctna tagaataatg taaattccgg gcaatctgta      60
gcggaaacca ggaaatataa tccagctaaa acttgacctt tggatcacg tgccagtaat      120
gaacggaagt tgtatactaa attacgcctt actgtcacat cactgcagt ataataaggt      180
ttatgcacat atactagaga taccactaga tttgtagttg ttctccttc tttaatagtt      240
ctgtgttgtc gttcatgcc a ttcaacataa tgagaagatt gagtgctata agcatagcaa      300

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tattcgcgtt tgcttcacc tggcccttca tcacattgtg taaaccaacc cgtatgtgga	360
tatttttcat caagccatta ctgtcactac tcttgcgacg tgatatcctg natcacaaag	420
gactacacct tttcttcatt tatgcaaac gaatagcaac cataacgtgt tctttttcta	480
angcgcccgcn ctgggagc	498

<210> 1762  
 <211> 409  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (14)..(14)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown

<220>  
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 <222> (72)..(72)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (101)..(101)  
 <223> n = unknown

<220>  
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 <222> (117)..(117)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (150)..(150)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (293)..(293)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (295)..(295)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (335)..(335)  
 <223> n = unknown

<220>  
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 <222> (351)..(351)  
 <223> n = unknown

<220>  
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 <222> (409)..(409)  
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<400> 1762  
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 ataaattaaa gngcgttttt actattttta ttttttatgt naaaatattt aataaantat 120  
 taagtatttt tataaagatt attgcatgtn tggattcatg agcaataagt tctaatatag 180  
 ttcttaacca tacagtcact acatagccta aatcgtcctt ttgacaaaat aatactttca 240  
 caaacacttt tcacaaaatt cttacgagtc agttttattc gaagtgtcgc tgntnttacg 300  
 aataatatct acattgctcg cttttttttc ttggngccta gtataagcca natcacttgt 360  
 tggaattgaa tttttagtga taacaatacg aggtttttct gtcattggn 409

<210> 1763  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (93)..(93)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (262)..(263)  
 <223> n = unknown

<220>  
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 <222> (425)..(425)  
 <223> n = unknown

<220>  
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 <222> (457)..(457)  
 <223> n = unknown

<220>  
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 <222> (460)..(460)  
 <223> n = unknown

<220>

<221> misc\_feature  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (494)..(495)  
 <223> n = unknown

<400> 1763  
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 acagtatttg aatctttgga cattggctgg canttggtgt gtacctccc caaggagatg 120  
 ttgaagagaa taccgcgttc caccctcgcc gagttttgcc cacgtgattc tcgtcattaa 180  
 aaatcttact aaagtttcca tcaataccat attttatttc cctttatatg atgtcttctc 240  
 catgtaaaga atattaaatc annttttggg atgtctggta ctaaccacat ccttaatgta 300  
 aggaaaacat gaagacatgt tttaatgttt aaagaaattg tagatcttat aaaataatga 360  
 ttctattggt aaaatgaaag tatgttggtg tgaaacaagt attctgccgt actagctaca 420  
 agttngtgaa atattatcaa attttattat tatattngcn cttctggatg aatttaaant 480  
 acattncatg atannttt 498

<210> 1764  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1764  
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 aggattcctt aaccggatct gctcctatct ccggacaata ctgcatttcg ggtgaactgc 120  
 acgaattcac gcaactaaat tttacttttt tacatttttg ctcgggtttc ggt 173

<210> 1765  
 <211> 231  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<400> 1765

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tttgggtgagt tcagttttgg ctttgtcggg ttcttcgggg gatttgaaat ttgttgctaa	120
gcggaagaag aataagctag gacgttcacg aggggttagt tctaagactt tgtcagataa	180
agcggttgagg acaccaggtc tttcacaaac ttctctggga aatcactttg t	231

<210> 1766  
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 <213> Ctenocephalides felis

<220>  
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<220>  
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catgcaaaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt	120
tcttgggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ctgcactttg	180
ataaaacgga gttgcatgac ataccacgac caccggcgga agaattgcaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaaatg tataaaattg nnttttatgt aaggagcaca aacaaaatgt	420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt	480
acatgttctt ttnataa	498

<210> 1767  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

<220>  
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<223> n = unknown

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<222> (172)..(172)

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<223> n = unknown

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<223> n = unknown

<400> 1767

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ttaccttttt gtattaaaat atatgtatat ttatgaatat gnttttcttg tnttttaggt 180

taaattcggt atagaataat ttggaaatac atattcataa tgctaaagta ttaaattggc 240

ttttttccat taaaatccta tttaacatta tacatatatt ttattgtcaa atgtgaggcg 300

gtatggaatc acgggtggct gctttctgag tagtcgaacc ttttaggcaa aaattgtgta 360

natcaaactc anttctacaa tcttgagctc atccacattc tcagaacatc catgtattta 420

aggtaactta ttgnatttaa cagcttttga ggaaatctgn aaatatgttt aagataaatc 480

aagtaaaaat ggcgaata 498

<210> 1768

<211> 498

<212> DNA

<213> Ctenocephalides felis

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<400> 1768  
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 aatgggggtgt tcttgggggtc tggcaacatt ccacgagcgg tgtcatagaa tccaaagtat 180  
 gctgcacggg agatgatgat accttgaaca gatactccaa aaccacggta caatccaggg 240  
 agaccatcag acttgaagat tttggtcaag cagttgcccc atccagagaa ttcacgttga 300  
 ccagcgcctt tacctacatc agcggccaat ctggtacggg cgaaatcaag tgggtagacg 360  
 aagcacaatg atgtggctcc agcagcacca ccagatgcca agtttctctgc gaagtaacgc 420  
 cagaattggg tcttcttctc aactccaccc aagaaaactt gcttgtcttg tctttgaatg 480  
 cgaagntcaa agcctgan 498

<210> 1769  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<400> 1769  
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 agtaggagaa gccctcagga atgtagtgga acttcgttta gatttgggaa aatgttcttc 180  
 agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg 240  
 catcgtgtga aattgtaact tgaaatantt tttcttaact attagtttta tagatgaaca 300  
 aatacataat ctaataaacc agcaagtga ctaaaaaaaaa aaaaaaaaaa aa 352

<210> 1770  
 <211> 411  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<400> 1770  
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 gaacggaagt tgtatactaa attacgcctt actgtcacat ccactgcagt ataataaggt 180  
 ttatgcacat atactagaga taccactaga tttgtagttg ttcttccttc tttaatagtt 240  
 ctgtgttggtc gttcatgcc a ttcaacataa tgagaagatt gagtgctata agcatagcaa 300  
 tatttcgcgtt tgcttcacc tggcccttca tcacattgtg taaaccaacc cgtatgtgga 360  
 tattttttcat caagccatta ctgtcactac tcttgcgacg tgatatcctg c 411

<210> 1771  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (490)..(490)  
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<400> 1771  
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 taataattag aaatgtgtta aaataaaatt caagctctaa ttactttgtc gatacaagct 180  
 ctattttcat tccatgtcat aataagatca tgtcttcatt ttgaatgtca aatgtacata 240  
 tcattttctc agctaataat tatacattat gattatgaaa taatgggttaa attagattat 300

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agttgacttc ctacatgtag aaattagaca cagtagaaat aaaacatgga tatatctttg	360
gagaatctta aactctaagc aattataaat taggaaacgt taaataattg caacaattta	420
catatcctat atattatcat gnaaaacgca aatatattag cacacataaa atagnгааат	480
aaataatcgn gcaaatat	498

<210> 1772  
 <211> 500  
 <212> DNA  
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<220>  
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<220>  
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 <223> n = unknown

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 gatacatgta ntttcataaa gcttctatat ttatatattt taaataatca gaaattacta 120  
 tagttaatga cnttttggtt gtgctcctta cataaaatac anttttatac attttaattt 180  
 ttatacatat tttttatatt taattgcaca natcatttgg gtatttatta tattaattga 240  
 ctactttatg ataatttgaa tcctaattag tctattcaag attgttttcc tggtttaagc 300  
 cttacttagc aatctcactt ttgcattctt cgccgggtgg cgtgggtatg catcgcaact 360  
 ccgttttatc aaagtgcaag ccatttggac aatcataatg ntttatttgc catttggtgn 420  
 tnaccaanaa acattgntaa ttttttttac aatctcttcg atngggaaaa acgttttcct 480  
 tttgcatgcc gttnttgcac 500

<210> 1773  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (57)..(57)  
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<400> 1773  
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ttaaactggt	tgtttaattt	aatgaaata	tttgcaaatt	ttgttcaaaa	ttaaatagtc	180
tataactttt	tctaacatcc	taagtccata	gagcaactcg	gtatactgaa	aaattaatan	240
ttttaaattg	atgtcgacac	tacgttgctg	caatgtttac	taactttaaa	attcttgtaa	300
cttttgaatg	gtttgtttta	tttgaatgaa	atatttggca	aatttgtttg	aaattaaata	360
atttacaact	ttgtctaaca	tcttaagtcc	atagagcaac	tcggtatact	cataaattaa	420
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<210> 1774  
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 <212> DNA  
 <213> Ctenocephalides felis

<400> 1774						
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aaaagttacc	ggaaacgcta	actgaagctc	acgtattcgg	cagggatcag	gtgttctgga	120
gcttaccgaa	aaaagggtgta	tcaaagtcta	cagatacggc	cgtaagaaa	ttatcacaag	180
aagactgtta	aatagttata	atttgtattg	ttatacatat	gcttcttata	taataaaatt	240
atattttattg	t					251

<210> 1775  
 <211> 410  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1775						
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caatagcttt	cgaagatttt	ctcaatgttg	ctttaagttg	ttctatttaa	aaaaaaatca	120
ttgttaacaa	taaagattta	aaaattttca	taagtattaa	ataaatttca	cacacaactt	180
tgtgtattaa	aagggttttt	attatcaatt	agttaataaa	ataactacta	aaattgtaaa	240
tgaaattttt	attgtatata	taaaattgaa	atacctacat	tttgtatgca	gatgttataa	300
ctgattgtaa	gtgaaccaat	tattgtaagg	aatatgggac	gccatatttt	cactcatttt	360
tttacacttt	aactataatg	taacagaaat	tatagtgtta	ttccatttgt		410

<210> 1776  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (35)..(35)  
 <223> n = unknown

<220>  
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 atatcaggag catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagaag aacgagcatt gttcatatg gaccataacc atatttcggt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgn 360  
 tattagattc gatgtaagat atatgt 386

<210> 1777  
 <211> 285  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1777  
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 ggcttaaggg ttgtgattcg gtgaggtttc cattgctttc attcacgttt gaacttggag 120  
 cagttgtgga tgggcttatt tcatcattcg ttgactgtgg ttggctgtct ttaacgtcac 180  
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<210> 1778  
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 <213> Ctenocephalides felis

<220>  
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 tttaatatta aatagattaa ttaaaaatct ataaagtgat aagaggcctg atatccataa 180  
 tattattgaa tattaagaag tgacggatan atctgataat gtagtanttg ttatagacaa 240  
 tttacttaat aattatgagt tgcattcatta tgcaatgatt tatcactatt atttattcaa 300  
 cattttattt aactgcttgc aacttttaatt aaaacgcatt ttttattgnt ttaagtataa 360  
 atcttattag ggcacaatat gaaaataaaa ataagaactt tatcaaaaagc tttttttata 420  
 caatatgctt ctgcgctat taagttaaga aattttattt atgcttgtaa aaaaacaata 480  
 aatgcttatt tattaataa 498

<210> 1779  
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 <212> DNA  
 <213> Ctenocephalides felis

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<220>  
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<220>  
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<220>  
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<220>  
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 <223> n = unknown

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 aaaattaatt tatccaaaca gcttataaan ttgtattttat cttttatcca ttcaacaata 180  
 aaatgttaac aaaaaaatac acatagaaat cttttcagac atggccattt aaacattttt 240  
 tcattaaggt tatcaaaaat atatcaggca tggccattta tacntttttt tattagagtc 300  
 atcaaaaaaa tagtatannt tctatggtat tattcaaaat ctatacatta ataaggatgt 360  
 tagaagtttg ttcgggttaat tttcaggcag aggntgctat tgnngtaata gaacaatttt 420  
 aatcatctaa aatttgatta atctattacc cttaatcatt caataggaaa cttnccttttg 480  
 gaatttcgaa tgggtg 496

<210> 1780  
 <211> 418  
 <212> DNA  
 <213> Ctenocephalides felis



<220>  
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 <222> (81)..(81)  
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<220>  
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 gttgtcaaaa ttttcctagg ggttgacgcc ttatttttgt gcaaattggt gtaaggcgta 180  
 agttocatgg attatattat ggcttaagat atcacgtcga cctcattcca cttaatagat 240  
 tcatcatttt tcatgttgga gttcgatgca tatttttact ataatacatt aaaaactgaa 300  
 aatttgtctt ttattttgta gagtgaaatg ctgagtattt gtagattatt tgtaatgtaa 360  
 atttactaag taataaattg ttaataatta ttggtagaat gacctaccna aaaaaaaaa 418

<210> 1781  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (63)..(63)  
 <223> n = unknown

<220>  
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 <222> (360)..(360)  
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 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgn 360  
 tattagattc gatggaagat atatgt 386

<210> 1782

<211> 438  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (335)..(335)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
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 <223> n = unknown

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 attgcacaga tcatttgtgt atttattata ttaattgact actttatgat aatttgaatc 180  
 ctaattagtc tattcaagat tgttttcctg gtttaagcct tacttagcaa tctcactttt 240  
 gcattcttcg cggggtggcg tgggtatgca tcgcaactcc gttttatcaa agtgcaagcc 300  
 atttggacaa tcataatggt ttatttgcca tttgntgnta accaagaaac attgataata 360  
 ttttttacia tctcttcgat cggaaaaaac gtttcacttt tgcattgcagt tctgcacgag 420  
 aaagaatttg ggtcaaac 438

<210> 1783  
 <211> 414  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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 ttaatttttta tacatatattt ttatatattaa ttgcacanat catttgngta tttattatat 120  
 taattgacta ctttatgata atttgaatcc taattagnct attcaagatt gttttcctgg 180  
 tttaagcctt acttagcaat ctacttttg cattcttcgc cgggtggcgn gggatatgcat 240  
 cgcaactccg ttttatnaaa gtgcaagcca tttggacaat cataatgntt tatttgccat 300  
 ttgttggttaa ccaagaaaca ttgataatat tttttacaat ctctttnatc ggnaaaaacg 360  
 ttttcacttt gcatgcagtt ctgcaccgan aaagattttg gggaaaacca ttcg 414

<210> 1784  
 <211> 187  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1784  
 tttgcagact gtactttctt tagtggtggt ctgtagatat ccactttgat cagcgcacac 60  
 ttgatctggg ctacaggatt ccttaaccgg atctgctcct atttccggac aatactgcat 120  
 ttcgggtgaa ctgcacgaat tcacgcaact aaattttact tttttacatt tttgctcggg 180  
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<210> 1785  
 <211> 500  
 <212> DNA  
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<220>  
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<220>  
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<220>  
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 <222> (456)..(456)  
 <223> n = unknown

<400> 1785  
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 nntaaaaatc ataattcgac anttttactt gtatttatct taaacatatt tacagtattt 120  
 cctcaaaaac tgttaaatac aataagttaa cttaaataca tggatgttct gagaatgtgg 180  
 atgagctcaa gattgtagaa ctgagtttga tctacacaat ttttgcctaa aaggttcgac 240  
 tactcagaaa gcagccaccc gtgattccat accgcctcac atttgacaat aaaatatatg 300  
 tataatgtta aataggattt taatggaaaa aagccaattt aatacttttag cattatgaat 360  
 atgtatttcc aaattattct ataacgaatt taacctaaaa tcaagaaata catattcata 420  
 aatatacata tattttaata caaaaaggta acttgngcaa aaatgaaatt caaatccctt 480  
 ggtttttggtt aattaaattg 500

<210> 1786  
 <211> 275  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (68)..(68)  
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<220>  
 <221> misc\_feature  
 <222> (70)..(70)  
 <223> n = unknown

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<220>
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<222> (113)..(113)
<223> n = unknown

<400> 1786
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aatttatngn tgtagcttat tgtatttcta atgaagtctt aactatgcca tanttttttaa    120
agtgtattat gtagtcctaa ttgtaattta atataaatat aaactttatt tagcagtaaa      180
tttaattaag aaagtgcata ccaactttca taatgaattt aatttttttt ttttactgaa      240
atatactcta ctctaaatta ataattgtgg tatgt                                  275

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<210> 1787
<211> 444
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (61)..(61)
<223> n = unknown

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<220>
<221> misc_feature
<222> (64)..(64)
<223> n = unknown

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<220>
<221> misc_feature
<222> (374)..(374)
<223> n = unknown

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<220>
<221> misc_feature
<222> (382)..(382)
<223> n = unknown

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<400> 1787
tttttttttt tttttttttt ttgatttcat aatttttcta tttttatata ttttaaataa      60
ngngnaaatt actatagtta atgacatttt gtttgtgtct cttacataaa atacaatttt      120
atacatttta atttttatac atatttttta tatttaattg cacagatcat ttgtgtattt      180
attatattaa ttgactactt tatgataatt tgaatcctaa ttagtctatt caagattgtt      240
ttcctggttt aagccttact tagcaatctc acttttgcac tcttcgccgg gtggcggtgg      300
tatgcatcgc aactccgttt tatcaaagtg caagccattt ggacaatcat aatgttttat      360
ttgccatttg ttgntaacca anaaacattg ataatatatt ttacaatctc ttccatcgga      420
aaaaaccgtt ttcacttttg catg                                          444

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<210> 1788  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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 <222> (486)..(486)  
 <223> n = unknown

<400> 1788  
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 gcgagcgtcc agcttgtgaa caaactcatc attccaaaaa catgttcagg ttcagacgaa 120  
 taatctttta gcatctctaa tgcattcatc ttcaatgttg caccattaac tttggcaatt 180  
 gtgcgtaaag tttttttcac atttcttcat ttttctctg cttgctagcc atcttggtga 240  
 ttcaatcata tatttgttat taattaaaaa tattgcaaat ggcaatgaag aaactagaac 300  
 aaaaacaaac caattttctca accaccacat caaaagaggc attgtgcaaa ttccaaacgt 360  
 ccaccaatt ccttgtaaca tagcgacgtg tgagttttca tcacttgctg atatttccat 420  
 tcctatgaca agaacagtct ggtatagaga catctgcggg agtgcagtca ccacatattc 480  
 aaatcntacc aataatat 498

<210> 1789  
 <211> 476  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1789  
 tgaaatgtga agacgacgtc aacgaattgt ttgacccaaa atcttttctg tgcagagctg 60  
 catgcaaaag tgaaaacggt ttttccgatc gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcgga agaattgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatga 476

<210> 1790  
 <211> 428  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (340)..(340)  
 <223> n = unknown

<220>  
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 <222> (387)..(387)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (392)..(392)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (415)..(415)  
 <223> n = unknown

<400> 1790  
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 actagagagg tgtcatttcc accagtggga tcgagaaata atcgacaaat tagctgtgtt 120  
 cgtgcccttg accaatatgt aaatggccaa ggaggctatg ccactcttgt caatgggtgga 180  
 gttggctgga aaaatgtaac ttactccta tcttctcaga ctggcaaagg atttaacttc 240  
 ttagttgaaa tttggggata ttagattaga aatataatga aaatgtgaat atagaaaaaa 300  
 aattaaatat acaatagtat tttaaatttg gccacatttn tctatgcac attaaataag 360  
 ggttttttac agcattcatt tataatnggt tnaagaatta taatgatttt atgangttta 420  
 aaaaaaaaaa 428

<210> 1791  
 <211> 492  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (27)..(27)  
 <223> n = unknown

<220>  
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&lt;222&gt; (205)..(205)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (477)..(477)

&lt;223&gt; n = unknown

&lt;400&gt; 1791

ggttccttta agacagagtt tggcttntat tcattgaaca gttcagaaat gcacagactt 60

gtattgaata tgaaaaccag cgataaactt ggaaaaaat attttgaata caaagttaaa 120

cgtgctgata ctgaattaaa aaaaggctgt gataaaacct gtcttaaaaa tcatatgtgt 180

gcaatagtta ccacagttgt atcanatctc atccagtga aaaatatcat caaatcatca 240

tcaagcattc ttcagcattt gaatatatat gtcctaggag ctattgtaat ttccaattat 300

ttattattat aaagtcattt ttgttaagtt attataaatt tagaataaat cattatgttg 360

gaaatatgta aacgctttga aaaagctagg atcaaatcaa atattttttg aaaaatcgaa 420

aaaaaacaat ttagtaaaaa aaacttattt gtaaagtga ataaagatat ctatatnttt 480

taaaaaaaaa aa 492

&lt;210&gt; 1792

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (28)..(28)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (56)..(57)

&lt;223&gt; n = unknown

&lt;400&gt; 1792

tgaaatgtga agacgacgtc aacgaatngt ttgacccaaa atctttctcg tgcagnnctg 60

catgcaaaag tgaaaacggt ttttccgata gaagagattg taaaaaatat tatcaatggt 120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180

ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaaa agtgagattg 240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420



cattaactat agtaatttct gattatttaa aatatataaa tatagaaagc tttatgaaat 480

tcatgtatct ttttaata 498

<210> 1793  
<211> 422  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (22)..(22)  
<223> n = unknown

<220>  
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<222> (57)..(57)  
<223> n = unknown

<220>  
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<222> (77)..(77)  
<223> n = unknown

<220>  
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<222> (82)..(82)  
<223> n = unknown

<220>  
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<220>  
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<223> n = unknown

<220>  
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<220>  
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<223> n = unknown

<220>

<221> misc\_feature

<222> (380)..(380)

<223> n = unknown

<400> 1793

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tgctccttac  ataaaanaca antntataca ttntaatttt tatacatatt tntnatattt      120
aattgcacag  atcattccgn gtatttatta tattaatnga ctactttatg ataatttgaa      180
tcctaattag  tctattcaag attgttttcc tggtttaagc cttacttagc aatctcactt      240
ttgcattctt  cgccgggtgg cgtgggtatg catcgcaact ccgttttatc aaagtgcaag      300
ccatttggac  aatcataatg ttttatttgc catttgttgt taaccaagaa acattgataa      360
tattttttac  aatctcttcn atcggaaaaa acgttttcac ttttgcatgc aattctgcac      420
ga                                                    422

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<210> 1794

<211> 498

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (26)..(26)

<223> n = unknown

<220>

<221> misc\_feature

<222> (407)..(407)

<223> n = unknown

<220>

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<222> (415)..(415)

<223> n = unknown

<400> 1794

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cacggaggat  attggagaaa gtcctnttga agaaggcacc acttccttct gtcttggcaa      60
tggtggccca  gcagtgcagt gttcccttgt acaacatttc agactttgca cgtccagact      120
gcatcatcat  acgcctacgg acagtgtcga atggatatga cacaatacca gcaacagttg      180
tgacggcttg  tgcaatggcc cagctgataa ctaatggggg gttcttgggg tctggcaaca      240
ttccacgagc  ggtgtcatag aatccaaagt atgctgcacg gtagatgatg ataccttgaa      300
cagatactcc  aaaaccacgg tacaatccag ggagaccatc agacttgaag attttgggtca      360

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FC-8-C3.ST25.txt

agcagttgcc caatccagag aattcacgtt gaccagcgcc ttttctnaca taagnggccca 420  
atctggtacg gcaaaatcaa gtgggtagac gaagcacaat gatgtggctt cagcagcacc 480  
accagatgcc aagtttcc 498

<210> 1795  
<211> 463  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (58)..(58)  
<223> n = unknown

<220>  
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<222> (370)..(370)  
<223> n = unknown

<220>  
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<222> (424)..(424)  
<223> n = unknown

<220>  
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<222> (426)..(426)  
<223> n = unknown

<220>  
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<222> (428)..(428)  
<223> n = unknown

<220>  
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<222> (432)..(432)  
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<222> (435)..(435)  
<223> n = unknown

<400> 1795  
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ttcagacgta ttgtggaaaa tgggtgttgc catgggattg agccaaacaa catatactgg 120  
ctcgattatg ctctatgtga tattctgcgt gtgggcacta ttcacaattg ccatcctagt 180  
catgatggaa ggcctttctg cgttcttgca cacactgcgt cttcactggg tggagttcat 240  
gagtaagttc tactctggtt tgggttatatt gttccaaccc ttctgcttca aaactatattt 300

FC-8-C3.ST25.txt

ggacgcgggag gataaggaag cagaataatc aatttatcta ttatttaaataa aaattaaaaa 360  
aacaattan ttataaagaa gttataaaaa agtaaattat tggtaaaaat tgattttcaa 420  
aggnncngnaa gntgnttttg gaataagcac ttaattttgt agt 463

<210> 1796  
<211> 307  
<212> DNA  
<213> Ctenocephalides felis

<400> 1796  
agcagtcacc ttctttcgat tgtgctttgt tgcatagtca aaagcgaatt tggcaatcct 60  
ttcagatttc ttagctgtta taatttttaa acattctaca actcctgtaa cgctttcgtg 120  
ctccaaagca ctatactctc cctcagtttg ttcacgaatg attacacagt caatattctt 180  
atgcctagag cgaactcctg gcaaactttt aacatgaaca acattggcat ataaatctag 240  
agtatttctt agcttcatgt tgagcgtttg tagctcaccg gtgtgagagt agtcaggtgt 300  
cgccagt 307

<210> 1797  
<211> 474  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (49)..(49)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (51)..(51)  
<223> n = unknown

<220>  
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<222> (101)..(101)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (170)..(170)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (297)..(297)  
<223> n = unknown

<220>  
<221> misc\_feature

<222> (379)..(379)

<223> n = unknown

<220>

<221> misc\_feature

<222> (458)..(458)

<223> n = unknown

<400> 1797

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aaataatcag aaattactat agttaatgac attttgtttg ngctccttac ataaaataca	120
attttataca ttttaatttt tatacatatt ttttatattt aattgcacan atcatttgtg	180
tatttattat attaattgac tactttatga taatttgaat cctaattagt ctattcaaga	240
ttgttttctt ggtttaagcc ttacttagca atctcacttt tgcattcttc gccgggnggc	300
gtgggtatgc attgcaactc cgttttatca aagtgcaagc catttggaca atcataatgt	360
tttatttgcc atttgttgnt aaccaagaaa cattgataat attttttaca atctcttcga	420
tcggaaaaaa cgttttactt ttgcatgcag ttctgcanga aaaaaaattt tggg	474

<210> 1798

<211> 149

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (33)..(33)

<223> n = unknown

<220>

<221> misc\_feature

<222> (63)..(63)

<223> n = unknown

<400> 1798

gcgctaaagg ggaattcact taaatcttta agntagtggt tgcaaactat cgatactatc	60
ganggtttca gacttttttc tttcataaat acttttttgt gatatgaaca tacttcgcaa	120
aaattaaatt tgacaaaaaa aatttaagt	149

<210> 1799

<211> 386

<212> DNA

<213> Ctenocephalides felis

<400> 1799

atatatctta catcgaatct aataacatta aagagttatt aattttcatg tcgatgtttt	60
agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa tcgataatac tttctcaaag	120

FC-8-C3.ST25.txt

tataattgca tttcacaaca cagcagcgaa atatgggttat ggtccatatg aagcaatgct	180
cgttcttctta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca	240
tgctatcaga gatgttctctg atattaaaaa tgttaaatacg caattataat ctagaattat	300
tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatatc	360
tgccattgcc ctgagttgtg tagggt	386

<210> 1800  
 <211> 459  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (363)..(363)  
 <223> n = unknown

<400> 1800	
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tcgaagagat tgtaaaaaat attatcaatg tttcttggtt aacaacaaat ggcaaataaa	120
acattatgat tgtccaaatg gcttgcaatt tgataaaacg gagttgcat gcatacccac	180
gccacccggc gaagaatgca aaagtgcgat tgctaagtaa ggcttaaacc aggaaaacaa	240
tcttgaatag actaattagg attcaaatat tcataaaagta gtcaattaat ataataaata	300
cacaaatgat ctgtgcaatt aaatataaaa aatatgtata aaaattaaaa tgtataaaat	360
tgnttttatg taaggagcac aaacaaaatg tcattaacta tagtaatttc tgattattta	420
aaatatataa atatagaagc tttatgaaat ttaaaaaaa	459

<210> 1801  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (59)..(59)  
 <223> n = unknown

<400> 1801	
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FC-8-C3.ST25.txt

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attcattttt agaaaaaat ataaatacaa ttccatttat catttgcaaa ttttcaattt 120
taaaaaaata ttgattcgat acattttgtg atgtttaccc gtattagccg aagggaatat 180
ttcgttggtt tctgttgagg taaaagaaaa atttgtagat tatttaattt tctataaatt 240
tgccgaatat ttcatataca tcaaataaac cggtcaaaag ttataaataa atgcactttt 300
cctaaactca agaacaaaac agtgaagcgc tgtgaatatt tatcaacttt tcaacaaact 360
tttttgagta taccgagttg ctgtagggtc ttctatgtt aggaaaatgt tttagactat 420
tcaattttct atattttctc caaacatatt tttagttttc cgcaaatagg ttttaagtta 480
tcagaaatgt aacgaata 498

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<210> 1802
<211> 221
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (28)..(28)
<223> n = unknown

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<220>
<221> misc_feature
<222> (31)..(31)
<223> n = unknown

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<220>
<221> misc_feature
<222> (59)..(59)
<223> n = unknown

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<220>
<221> misc_feature
<222> (202)..(202)
<223> n = unknown

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<400> 1802
ttaaatttaa gttaaagtga aacaatantt nattatagac tggcttaca taaacatgna 60
agctagttta catattttta atatttttta tgtgaatgtt ataataatga gaccgtgttg 120
catgattatt ttctgaatac taaccattct ccgatgtaga acgttactgt gataacttct 180
gtagcggtt acctgatgta tntgggttgc acttgagaag t 221

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<210> 1803
<211> 167
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (29)..(29)
<223> n = unknown

<400> 1803
ctgcatacca gtcagactgt ttaggtgcnt gtgtcacttc ttcccatcc ataccatgct      60
taccatcctt accatctttc ccaaccttgc caacatcttc cccaacagca ggatttcctt    120
ttggccgaaa atctcttgat atgcaaacia aaactggaac taaatgt                    167

<210> 1804
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (177)..(177)
<223> n = unknown

<220>
<221> misc_feature
<222> (402)..(402)
<223> n = unknown

<220>
<221> misc_feature
<222> (469)..(469)
<223> n = unknown

<400> 1804
catatgtaga aataccaatc aataagcaga ttttatcaaa aatatcaa atgttaaattga      60
acttttcttt gaaaaatata gatgaactaa ctattgattt gccacaaatc atatcgcaaa    120
catttggaat tgtgcagaaa actgcaaatc ttataccaga aaaagacgaa acaacanttt     180
cagataaaca acaaaatttt gctaataaag atttgtatga tccagagaag tttgacaaaa     240
tgccagggtc ttggcccggt gacctaccat tgccatagcc ttgttgggga agagaaactg     300
atgcaaagtt agatttttca tcagtaatag aatatgaggc atttgccagc agagtagaaa     360
tgacggaaca gagattattg gaagagacca actatgatct gnagataact ttttacaatt     420
caaccaggga atatagaaaa atgaaggatg cttccggaca aaatatganc tgggataaat     480
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<210> 1805
<211> 432
<212> DNA
<213> Ctenocephalides felis

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<220>  
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 aaataatcag aaattactat agttaatgac attttgtttg tgctccttac ataaaataca 120  
 attttataca ttttaatttt tatacatatt ttttatattt aattgcacan atcattnngn 180  
 tattttattat attaattgac tactttatga taatttgaat cctaattagt ctattcaaga 240  
 ttgttttcct ggtttaagcc ttacttanca atctcacttt tgcattcttc gccgggtggc 300  
 gtgggtatgc atcgcaactc cgttttatca aagtgcgaagc catttggaca atcataatgt 360  
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<210> 1806  
 <211> 414  
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<220>  
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 cacacaatta gcaataggaa aatctagcca caaatttttt taacaattta ttttaatactt 60

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atgtntctaga aatacaaagt gtaaagttca aggtttgtat agcttaataa agtaaacatt	120
ttaaaatgta atgaatttat ctgcaaataag tcaaaatcaa aattactata taatgattat	180
tgaaataatg cttttataga ttgcatttca atctgtatta aattgtatgt aaatcacagc	240
acaagatcta acacacaatt catctaacag aaagaactaa ataattttta tgttattaaa	300
aattacatat aaaataactt ttacaataaa gtaaccttac atgagatgtg ttgatttcag	360
atacttttca tacaacagtg ctttctgtat aaacaatata atataaataa cggt	414

<210> 1807  
 <211> 382  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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aaaggttgca ttaaataatac aactagcagc agccagagtt tcaactgatg ttggcattaa	120
agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcttc	180
agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg	240
catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca	300
aatacataat ctaataaacc agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	360
aaaaaaaaaa aaaaaaaaaa aa	382

<210> 1808  
 <211> 500  
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<220>  
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 ttattaaaaa gatacatgta atttcataaa gcttctatat ttatatattt taaataaatca 120  
 gaaattacta tagttaatga cnttttgtn gtgctcctta cataaaatac aattttatac 180  
 attttaantt ttatacatat ttnttatatt naattgcaca natcatttgg gtatttatta 240  
 tattaattga ctactttatg ataatttgaa tcctaattag tctattcaag attgttttcc 300  
 tgggttaagc cttacttanc aatntcactt ttgcnttctt cgccgggtgg cnggggtatg 360  
 catngcaact cccgttttat caaagtgcaa gccatttggg caatcataat gnttttattt 420  
 ggcatttggt ggtaaccaa aaacattgna aaatattttt tacaaatctc tttcgacggg 480  
 naaaaacggt ttttcttttg 500

<210> 1809  
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 <212> DNA  
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<220>  
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<220>  
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 <222> (207)..(207)  
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<220>  
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 <222> (401)..(401)  
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<220>  
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<220>  
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 <222> (473)..(473)  
 <223> n = unknown

<220>  
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<400> 1809  
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 gnataaagct tctatattta tatattttta ataatcagaa attactatag ttaatgacat 120  
 tttgtttgtg ctccttacat aaaatacaat tttatacatt ttaattttta tacatatattt 180  
 ttatatttta ttgcacagat catttgngta tttattatat taattgacta ctttatgata 240  
 atttgaatcc taattagtct attcaagatt gttttcctgg tttaagcctt acttagcaat 300  
 ctcacttttg cattcttcgc cgggtggcgt gggtatgcat cgcaactccg ttttatcaaa 360  
 gtgcaagcca tttggacaat cataatgttt tatttttgcca nttggtgnta accaagaaac 420  
 attgataata ttttttacia tctcttcacg gggaaaaaac gtttttactt ttngctgcat 480  
 tctggacgan aaaaaatttg 500

<210> 1810  
 <211> 488  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
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<400> 1810  
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 cgtgcaaaag tgaaaacgtt ttttccgac gaagagattg taataaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaatg tataaaattg tattttatgt aaggagcaca acaaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaattt 480  
 aanaaaaaa 488

<210> 1811  
 <211> 335  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(34)  
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<400> 1811  
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 taccgattac tacagtatta tatttataat atgttcaata tagcactgtg gtccaatttt 120  
 attttgacca aagggtttata taaaaatcca ggttttcttg atcatgtaaa atgttggtcc 180  
 attatcttaa attattatat tcagaatgat atataatcca ttcaactttc taaaacaaac 240  
 aagaaatctg tgcaacgtct gatatctgtg aatatgtatt gtatttaata tatatgttaa 300  
 gtgttttaaaa atatatttct atttcatata cttgt 335

<210> 1812  
 <211> 415  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (28)..(28)  
 <223> n = unknown

<220>  
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 <222> (59)..(59)  
 <223> n = unknown

<220>  
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 <222> (167)..(167)  
 <223> n = unknown

<220>  
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 <222> (385)..(385)  
 <223> n = unknown

<400> 1812  
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 tcaacacatc tcatgtaagg ttactttatt gtaaaagtta ttttatatgt aatttttaat 120  
 aacattaaaa ttattttgtt ctttctgtta gatgaattgt gtgttanatc ttgtgctgtg 180

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atttacatac aatttaatac agattgaaat gcaatctata aaagcattat ttcaataatc 240  
attatatagt aattttgatt ttgactatct gcagataaat tcattacatt ttaaaatggt 300  
tactttatta agctatacaa accttgaact ttacactttg tatttctaga acataagtat 360  
taaataaatt gttaaaaata tttgnggcta gattttccta ttgctaattg tgtgt 415

<210> 1813  
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<212> DNA  
<213> Ctenocephalides felis

<220>  
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<222> (26)..(26)  
<223> n = unknown

<220>  
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<223> n = unknown

<220>  
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<222> (56)..(57)  
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<400> 1813  
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aaatatgtat agataaaaga taaagattgt aaaaagtttg agaaacactg tttggatggt 120  
gaaacgaaat atagaaaaca caaaagttaa aatatatata tactcagccc caaataatat 180  
aatttaaaat tatgggtaag tttgtttagt agctcagtgg taatagcatt agccttgcaa 240  
ccagaattgc agattccatt cccctcattaa acctgatatc aagcagt 287

<210> 1814  
<211> 287  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (201)..(201)  
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<400> 1814  
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aaatatgtat agataaaaga taaagattgt aaaaagtttg agaaacactg tttggatggt 120

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gaaacgaaat atagaaaaca caaaagttaa aatatatata tactcagccc caaataatat 180  
aattttaa at tatgggtaag nttgtttagt agctcagtg taatagcatt agccttgcaa 240  
ccagaattgc agattccatt ccctcattaa acctgatatc aagcagt 287

<210> 1815  
<211> 126  
<212> DNA  
<213> Ctenocephalides felis

<220>  
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<400> 1815  
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aaaattaatt gcgacaagca atattaccat gcactcttga agattttaaa aaaaagtagt 120  
taaggt 126

<210> 1816  
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<212> DNA  
<213> Ctenocephalides felis

<220>  
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<223> n = unknown

<220>  
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<222> (29)..(29)  
<223> n = unknown

<400> 1816  
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acgcagcatt aacaaggttc ttgcaattca gcataatgac cagaagaaaa atacaggt 118

<210> 1817  
<211> 500  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
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<223> n = unknown



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<220>
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<222> (397)..(397)
<223> n = unknown

<400> 1817
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gatttcatag aagaacatgt ttaaaataga tagttgaaaa caagagtcta atgtaataca      120
tagaagtaga aactgggtgcc ttttgaataa cttgtactag ttttggcaca aagattaaaa      180
atataaaata aattggaagc caatttatcg ctattctatt ttttgtttta ctataagggt      240
atttaatagt accctccacc ccatttagta aacagaattc agggatgatc gaattgcact      300
tgaaaataca aaaagatatt ttgcagtgaa tggatatccc tcgatattag cagtcaacaa      360
ctgagaatta atgtcttttg ttcaaattgt tattcgntgg ctaataatat ctcattat      420
acatctaact taaatttata ttaattaaac tattttacat catttttagat gaactcggaa      480
taattttata ttttaaagcaa                                          500

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<210> 1818
<211> 500
<212> DNA
<213> Ctenocephalides felis

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<223> n = unknown

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<223> n = unknown

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<223> n = unknown

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<223> n = unknown

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<220>
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<223> n = unknown

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<222> (177)..(177)

<223> n = unknown

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<223> n = unknown

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ggntttttaa naatcagaaa ttactatngt taatgacatt ttgtttgngc tccttacata 120

aaatacantt ttatacattt taatttttat acatattttt tatattttaat tgcacanatc 180

attngngtat ttattatatt aatngactac tttatgataa tttgaatcct aattagtcta 240

ttcaagattg ttttcctggt ttaagcctta cttagcaatc tcacttttgc attcttcgcc 300

gggtggcggtg ggtatgcac gcaactccgt tttatcaaag tgcaagccat ttggacaatc 360

ataatgtttt atttgccatt tgttggttaac caagaaacat tgataatatt ttttacaatc 420

tcttcgtcgg aaaaaacgtt ttcacttttg catgcagttc tgcnagaaaa agattttggg 480

tcaaaccatt cgttgacgtc 500

<210> 1819

<211> 394

<212> DNA

<213> Ctenocephalides felis

<220>

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<222> (29)..(29)

<223> n = unknown

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<221> misc\_feature  
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 <223> n = unknown

<220>  
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 <222> (59)..(59)  
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<400> 1819  
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 gtggatcaat atacgcaata actcataatt cttctcattg agacgtgggg cattctctct 120  
 ccagaactta gcagatttgt gaacaggtga ccattccaat ctgccggact tgatttctgt 180  
 agcatattca tcaaatgagc caaggtcttg aatggaagct tgtaattttt cgggtcaaata 240  
 ttcaacatca gcaacgatat cctcatcatc tgaacgtctt tgttccagga tggataattg 300  
 tttcaatacc ttgctttgca ccattgcaat gcaatgctcc ttggccacct gttgatcttc 360  
 cactttctca attaaattcc tataaacagc cagt 394

<210> 1820  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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 <223> n = unknown

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 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
 attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
 tcttcattg tgtctttaca ctcggtcgt 269

<210> 1821  
 <211> 496  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<223> n = unknown

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<223> n = unknown

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<223> n = unknown

<220>  
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<222> (483)..(483)  
<223> n = unknown

<220>  
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<222> (494)..(494)  
<223> n = unknown

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aatcagaaat tactatagtt aatgacattt tgtttgtgct ccttacataa aatacaattt 60  
tatacatttt aatttttata catatttttt atatttaatt gcacagatca tttgngtatt 120  
tattatatta attgactact ttatgataat ttgaatccta attagtctat tcaagattgt 180  
tttcctgggt taagccttac ttagcaatct cacttttgca ttcttcgccg ggnggcgtgg 240  
gtatgcatcg caactccgtt ttatnaaagn gcaagccatt tggacaatca taatgtttta 300  
tttgccattt gttgttaacc aagaaacatt gataatattt ttacaatct ntttgatcgg 360  
420

aaaaaacggtt tcacttttgc atgcanttct ggacgaaaaa agaatttggg tcaaaccatt 480  
 tcntggccgt cgtntt 496

<210> 1822  
 <211> 296  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1822  
 catcaccgag aagaactctt cggctattga atatcttcat tggaggcgcg ttgttggtgc 60  
 acgcagcatt aacaagggtc ttgcaattcg gcataatgac cagaagaaaa atacaggtag 120  
 tgcttttcat ttgttttcag taatagatta cttcttgaga tagataataa tactgtggag 180  
 aagtaacctt cacatgaagt aggcttggtt ctttataatc actggctttg ttctggatat 240  
 tagaaatctg atcacaaaat ttatttaagt tattattatg ttaagtaaca tcccac 296

<210> 1823  
 <211> 328  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (57)..(57)  
 <223> n = unknown

<400> 1823  
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 atgtttttga aaaaacacca caacattggt tatagtaagc ttgcctttg ttactttagt 120  
 tttcaaaatt tgttcaaggc cctcttctcc ctttccttcg taagcttttt taagtatctc 180  
 ataagtcaat cttttttttg acattttgcg aagtgtttca atggttacga ctgatttaag 240  
 aggtgccaat aatatttagct catcagccat tttttgcatt tccaaaatat catcgataat 300  
 tctgagtttg tttgaaagtt gcttcagt 328

<210> 1824  
 <211> 261  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (35)..(35)  
 <223> n = unknown  
  
 <400> 1824  
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 atttcttaga aacatcaaca gcccacgtag tctgtgcaag attggtagtt ggtatatccg 120  
 taatgataat ctgagggttggt tgctgggttta ccgattgttg ctgggtttatc gattgttgct 180  
 ggttttagcaa ttgctgctgt tgccagagaa atttttgttc ctgaactttt tgggtattgtc 240  
 gcaactgctg ttgatgtaag t 261

<210> 1825  
 <211> 419  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown  
  
 <400> 1825  
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 taccatcctt accatctttc ccaaccttgc caacatcttc cccaacagca ggatttcctt 120  
 ttggccgaaa atctcttgat atgcaaaca aaactggaac taaatgtaca aaaggagaag 180  
 tttctaaaga cgatttaaatt tctacatgta cctagtgagt gtgttatatg aaattgctat 240  
 tgcattattac atacaagctt aataaagggt aaaaaaaaaa aaaaaaacct tttgcatgta 300  
 ggatccaatg gatcgcgaaa tagtccaact cttggacaaa tgaatgggtg ctgccaaata 360  
 cgaacgctgc tggaatttgt ttcaactgga attagttctt gagactccaa agacaatgt 419

<210> 1826  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (61)..(61)  
 <223> n = unknown  
  
 <400> 1826  
 ttttgttatt ttcggaaact tggattaata ttgaagaacg aattaatatt cagaactatg 60  
 nctgcgttac tcaatacaaa cgatcggact caagagcagg tgggtgtagct gtctaattgtc 120

```

tattattcat gttcagatac ttttcataat gcgactccta tgcagtttct tgcgccaacg      180
atattactgg atatttctaa tgaaattaca caagtaggtg atattacaca cacagaatca      240
aacattgatt atagtcgtcc tttacatttc tcccaataaa aacatatcaa atattattaa      300
atttcttcat cagcagttac ttcatttttc ttatgagggt gcaaaacttt taaacactaa      360
tcacaacgag ataccattaa ttcttgctgg agatttcaat gtcaattttc cgttcagaag      420
aatctcaacc attaattgat tttttaaata ataaatttaa tttaacaatg aataattctt      480
catttgaatc aaccacaaga                                          500

```

```

<210> 1827
<211> 205
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (29)..(29)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (56)..(56)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (148)..(148)
<223> n = unknown

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<400> 1827
ctgctaatta tatacaaatt atcaaattna atgttaatgc taatacaact gataangttg      60
agacaaaata aaggaagatt cagataaaaa tgtaaattatt aatattaggc atttataaca      120
aatcatgtgc ttttccttgc tcactaanat cttgctatta tgttatgggt gatactagac      180
aactgtatat taagtaatta taagt                                          205

```

```

<210> 1828
<211> 485
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (59)..(59)
<223> n = unknown

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<220>

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<221> misc\_feature  
 <222> (148)..(148)  
 <223> n = unknown

<400> 1828  
 tcctcagccc ggcacaaaag taccccaatt tgcccccttg acgggagatg acgtgctgng 60  
 acctatgtcg ccattccggt cttcgctgaa ggtaccttcc caaacatatt ccataataat 120  
 ccataatata taataattca cataatantt cgacggctgc ggggttgatt aagggcggtt 180  
 tccccgattg aaaccgtacg cgtccatcga ttccggacatc tcaatggtcc tcgctcgtgg 240  
 actactgggc ccagcttttca actcacatat ataaccataa aacaaaaacg taaatccgat 300  
 atggcgctccc gatataagcc tgcagactta ttttataca atttatgttg caacaaccta 360  
 ctctccacaa acaaaaatcc cactataact tcttatatgt cttcttaatt ttacgactta 420  
 tctaattgggg ggaatcttaa aactaaacct attactataa ttatgggtta ttattttacat 480  
 atgta 485

<210> 1829  
 <211> 173  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (29)..(30)  
 <223> n = unknown

<400> 1829  
 tttcttttagt ggtgcactgt agatatccnn ttgtatcagc gcacacttga tctgggctac 60  
 aggattcctt aaccggatct gctcctatct ccggacaata ctgcatttcg ggtgaactgc 120  
 acgaattcac gcaactaaat ttactttttt tacatttttg ctcggttttc ggt 173

<210> 1830  
 <211> 493  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (62)..(63)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (205)..(205)  
 <223> n = unknown



<220>  
 <221> misc\_feature  
 <222> (478)..(478)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (487)..(487)  
 <223> n = unknown

<400> 1830  
 gggttccttta agacagagtt tggcttaaat tctttgaaca gttcagaaat gcacagactt 60  
 gnnttgaata tgaaaaccag cgataaactt ggaaaaaaat attttgaata caaagttaaa 120  
 cgtgctgata ctgaattaaa aaaaggctgt gataaaacct gtcttaaaaa tcatatgtgt 180  
 gcaatagtta ccacagttgt atcanatctc atccagtgc aaaaatcat caaatcatca 240  
 tcaagcattc ttcagcattt gaatatatat gtcttaggag ctattgtaat ttccaattat 300  
 ttattattat aaagtcattt ttgttaagtt attataaatt tagaataaat cattatgttg 360  
 gaaatatgta aacgctttga aaaagctagg atcaaataca atattttttg aaaaatacga 420  
 aaaaaaacia tttagtataa aaaacttatt tgtaaagtga aataaagata tctatatntt 480  
 ttaaaanaaa aaa 493

<210> 1831  
 <211> 393  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n = unknown

<400> 1831  
 tctccaatat caaagcaggc tacagacaga acntggggat cacgagagct ttcaagtaag 60  
 tggatcaata tacgcaataa ctcataattc ttctcattga gacgtggggc attctctctc 120  
 cagaacttag cagattttgtg aacaggtgac cattccaatc tgccggactt gatttctgta 180  
 gcatattcat caaatgagct aaggctctga atggaagctt gtaatttttc ggtcaaatat 240  
 tcaacatcag caacgatata ctcacatctt gaacgtcttt gttccaggat ggataattgt 300  
 ttcaataoct tgctttgcac cattgcaatg caatgctcct tggccacctg ttgatcttcc 360  
 actttctcaa ttaaattcct ataaacagcc agt 393

<210> 1832  
 <211> 322

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (97)..(97)

&lt;223&gt; n = unknown

&lt;400&gt; 1832

```
acttattaaa cttttttcat caattggaat gtctacagaa caccagcgtg ttttataatg      60
aatacaaaaa cgcggaacag acaaaaaataa atctaanttg cattattatg tttataatgt      120
atcttagaac atcaaagata taaaaccttt ctaaataatta aattgaaaaa atatgaatag      180
ccatgatata agggtaaata gatgtccaaa aaaaacgttt catttaagaa agtcatatga      240
gtagattaga ttttaaattt gtgcacagaa tttatgactc atgatctttt taatcgctat      300
tcataaaata aacggtaaaa tg                                          322
```

&lt;210&gt; 1833

&lt;211&gt; 287

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 1833

```
caaataatga tggatgtgat ttcatatatc cctaaacttt ggatcagagt ttgagagaag      60
cctagccata gtgtatagaa aattatgtgt aggtgtataa ttaagattgt caggagtcaa      120
atatataaag cattgataca aattatacat tccaattttc tgtaaaccgt gttcttttgg      180
tgattatggt ttatatcaca atttatgaat catgtaaatt aattgtaaat ttgaaatgta      240
tctccgatgt aaatgtatta aaaaaaaaaa aaaaaaaaaa aaaaaaa                287
```

&lt;210&gt; 1834

&lt;211&gt; 313

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 1834

```
aattcttggc tataagttcg ttgcatgttt tgcaagtgat ttgtttattg catttattcc      60
cgtggcatat tttacatgaa tcagagtttg cattacaatc gttaccctga tctgatttgc      120
atcctcgagt aatgacacct ttttcaattt ttgaatagca gtcgtccttt ggattcatac      180
aaacttttgg cttcgtcttt cctgcatctt tgaaacattc gtttcttagt tctggaagtt      240
tttgaacggt acaaccgat ttctcgcaac acattttttc tcggttagtc gagtcacaac      300
tttctttaac cgt                                          313
```

<210> 1835  
 <211> 442  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (438)..(438)  
 <223> n = unknown

<400> 1835  
 caacacagag tttccacagt tcagcaccat tagcacaaac agacaaccgg catgagttat 60  
 ccaatcgctt gcgattctat gctctggtta aaaatataag tcgagaagct gccatatgct 120  
 tctccaaaca ttgacagttc caatgaaact aaaaaataga aataagtcag caactaaaac 180  
 tctccaaaat ccttccaaac gagcacatgt ccatcgcatg ataggctgaa gactgaatgt 240  
 gagtattaca atcccgtagc caagtgaag tgaagccaga gcactaagcg atggatcatc 300  
 tggaaatata atattgtcca atatcaccca agtccccctc cacacgacaa ccaccaagga 360  
 tccaacgatg aatacggaata ataagcaatc gattacgtaa agccatttct tctgatgact 420  
 cgattcttta aaatatgnag gt 442

<210> 1836  
 <211> 167  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1836  
 ctgcatacca gtcagactgt ttaggtgcaa gtgtcacttc ttccccatcc ataccatcct 60  
 taccatcctt accatctttc ccaaccttgc caacatcttc cccaacagca ggatttcctt 120  
 ttggccgaaa atctcttgat atgcaaacia aaactggaac taaatgt 167

<210> 1837  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1837  
 aaagatatag ttttttaatt gcaacatatt ggctataatc ttgggttggt gaaaatcaac 60  
 ttgggttgag ggataacacc actatagatt caaatactcg ccaatcacac aaaaacactt 120  
 ttaaatctct tctaccagaa aaaaaaatga caaaaagaaa aacacgtttt taaccagtta 180  
 cagtagtggt actcctcaat ccaatgaaat tttatgcagt tctgttacia aattatatct 240  
 gttgtaatat ttaaaaaagt taaacttttg cttaaccaat gaaaataaga tctcaataga 300  
 agacttaaat taaatatgat agtgatacat gagcatatgt tcataaatca actttctgat 360

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tgatttttcta tgataaatgc attgactaca ctatttttact tactactaca cgtccttttac	420
agaatgcata taaattaaaa tatgcaatat atttatattc attgagtga aaccgatttg	480
taagcaaaac agcttaca	498

<210> 1838  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (392)..(392)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (397)..(397)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (498)..(498)  
 <223> n = unknown

<400> 1838	
caataaatat tgaatttaca ggcttatgaa caccattaag agtaaaccctc aatttgatca	60
cagcaccctt ctctcccaac tcaattttct tcgtataccc catgtaattg atatgattag	120
ccctttcctc ttctctgaaa taaacccaat tatgtagacc tgttacttca caatttttta	180
attcagctaa gaaaacatgc tcaaattgctg aactaccgat tttgccacct cctctggagt	240
ataaattaaa ccaaatcggt ttcaataaat ccttatgagt ttggggatct ctagtacaaa	300
ttcccttttc aataaaaaaa ttcataagat gtgcgcatcag gctgggtggat aacattgcat	360
ctaacaaagc attttcttca tttctttctt gngcagntac atgttcattt actgcagtat	420
ctaattcata attattaaat atgggttcat aagcgcttag gtttaatatc aaaagctgct	480
gattcacaac aagccatn	498

<210> 1839  
 <211> 131  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1839	
cttttgcatg taggatccaa tggatcgga aatagtccaa ctcttggaca aatgaatggt	60
tgctgcaaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagactcc	120

aaagacaatg t

131

&lt;210&gt; 1840

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 1840

cctacacaac tcagggcaat ggcagtatgt atatcttttaa tgatgggtcg attaggaagt 60

gttggttgaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360

tattagattc gatgtaagat atatgt 386

&lt;210&gt; 1841

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (63)..(63)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (70)..(70)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (470)..(470)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (491)..(491)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (494)..(494)

&lt;223&gt; n = unknown

&lt;400&gt; 1841

tttttttttt tttttttttt ttttttcata tatcatataa gttatatttc gtatacattt 60

tgnggtttgn ggtccatatt ttaatttgct acttaacata ttctatgatt atggatttat 120

FC-8-C3.ST25.txt

tcaaaattaa tttatccaaa cagcttataa aattgtatct atcttttatc cattcaacaa	180
taaaatgtta acaaaaaaat acacatagaa atcttttcag acatggccat ttaaacattt	240
tttcattaag gttatcaaaa atatatcagg catggccatt tatacatttt ttttattaga	300
gtcatcaaaa aaatagtata atttctatgt tattattcaa aatctatata ttaataagga	360
tgtagaagt ttgttcggtt aattttcagg cagaggttgc tattgtagta atagaacaat	420
tttaatcatc taaaatttga ttaatctatt acatttaatc attcaatagn aaattccttt	480
tggaatttcg naanggtggc	500

<210> 1842  
 <211> 494  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (205)..(205)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (458)..(458)  
 <223> n = unknown

<400> 1842	
ggttccttta agacagagtt tggcttaaat tcattgaaca gttcagaaat gcacagactt	60
gtattgaata tgaaaaccag cgataaactt ggaaaaaat attttgaata caaagttaaa	120
cgtgctgata ctgaattaaa aaaaggctgt gataaaacct gtcttaaaaa tcatatgtgt	180
gcaatagtta ccacagttgt atcanatctc atccagtgca aaaatatcat caaatcatca	240
tcaagcattc ttcagcattt gaatatatat gtcctaggag ctattgtaat ttccaattat	300
ttattattat aaagtcattt ttgttaagtt attataaatt tagaataaat cattatgttg	360
gaaatatgta aacgctttga aaaagctagg atcaaatcaa atattttttg aaaaatacga	420
aaaaaaacaa tttagtataa aaaacttatt tgtaaagngg aaataaagat atctatatat	480
tttaaaaaaa aaaa	494

<210> 1843  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>

<221> misc\_feature  
 <222> (110)..(110)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (477)..(477)  
 <223> n = unknown

<400> 1843  
 tttttttttt tttttttttt tttttttttt ctgacagact cgagctaggc ttaaaaaact 60  
 acattttttac agatgcgatt aatgaaaatt aaagtttgct actaatccan atctatcctt 120  
 gattctgttt ttgctgctaa tgtgccacaa tgaaatttag atgctctcat tttcttaaaa 180  
 ctaagtgtta aatcatccat tgtaattggt cgtagagcat catgaaattc ctcttctgcg 240  
 tcttgatgt gtggcaccaa aggtgattca gtgtgcatat aatctctaac tctatacaca 300  
 gaagcatttc ggcataattc ccttaagtct gatcctgaaa atccctcagt gagtttagat 360  
 aattcatcta aatcaacttc atctgaaata gggtcatttt ctaaaataag ctctagtatc 420  
 ttgaatcttt gtgtcttatg ggcattgcaa tatggaatgt ggctggcata cccgcanaat 480  
 tgctctatct aaatcttgag 500

<210> 1844  
 <211> 258  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1844  
 ttgtttttac ttatgtgtt atataaaaa atattatggt tgaacacagg ctcgcaaata 60  
 tgataaggca tttaagaatt ttacaattta gattttttta aatccatgaa tatatttggt 120  
 ctaatcaaaa ttattcattt tacgcttaat ttatttggt gaactaatag atagatagat 180  
 aaagatatag agttaatata aaaatgaaga aaataaaatt aaaagtaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa 258

<210> 1845  
 <211> 238  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1845  
 ttgtttttac ttatgtgtt atataaaaa atattatggt tgaacacagg ctcgcaaata 60  
 tgataaggca tttaagaatt ttacaattta gattttttta aatccatgaa tatatttggt 120  
 ctaatcaaaa ttattcattt tacgcttaat ttatttggt gaactaatag atagatagat 180  
 aaaagatata gagttaatat aaaaatgaag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 238

<210> 1846  
 <211> 456  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1846  
 ctttttgaga aaattaacac atttatacac ttgatagaag aatttattat taatacatat 60  
 tatatatatt gaatatagaa agcaaactta ttataaaaat attaatgcac ttatgtcaat 120  
 agtttcatat agtattgccg ggaaaagcta agtattaagt ataatatatt tagttattct 180  
 taaaacatat gttgttgttg ttttgataaa gctgtgtctt aaaatgactt tatatacagc 240  
 aattatcttc aataatcctt tccacaattt tgctcggtgt gttttagttt gctcaaactc 300  
 atgggtgtat tgttttccac atatgtctta atttctttca tcaattccga tgatgggttt 360  
 tgctcacgtg tgagaatcca agctaattcc attttcttc gtggatgaat tgtgcagctc 420  
 cacacaatag caaatttata aaaatcgctt tttagt 456

<210> 1847  
 <211> 328  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1847  
 ctcttaccga aatattatct atatctctta catatatagc atacaataat gggctaagta 60  
 tacctccttg tggtagtctt ttattcacta ctctttcacc aattatcttg ttatctttct 120  
 tcactattat attcctttca tatatattaa atgttaaggc tgacaccaat cggaatggta 180  
 atcctatctt aattaattct tggaacatta tacttggaac gacattatca tatgcccctt 240  
 taatatcgca aaagagtgcc accacataat tatttcttga aaatgccaaa ttaatatcaa 300  
 ccattaattt acataaatta tccttcgt 328

<210> 1848  
 <211> 430  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (96)..(96)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n = unknown



<220>  
<221> misc\_feature  
<222> (135)..(135)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (161)..(161)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (197)..(197)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (203)..(203)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (213)..(213)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (222)..(222)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (255)..(255)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (260)..(260)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (267)..(267)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (280)..(280)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (320)..(320)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (400)..(400)

<223> n = unknown

<220>

<221> misc\_feature

<222> (405)..(405)

<223> n = unknown

<400> 1848

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aaattgttga tggcacaact ttttgcagaa agttttgtaa actgattaac aaaaaaagga      60
aacattaccg ataagtagaa aataatataa ctaacngttt gtaatatgct ataaatctta      120
aaacaacnct cttgnaacaa aatattatag ggagatattg naggtgaaac cttaaagggt      180
aaatagaaaa gaaagcntht ggntgaaaat gangaaattt gnttcaaaac ttctgaactt      240
ttctagaaac cgtgnaaacn tggctgnatt tattggaaan tattaatgga acctttggcg      300
gtttattttac caaggttcan ttcttcccg actatthttt tttggcaaat aaattttaaag      360
atthttatgat thttttgggg acaacgtgca gtatthttgn atggntataa aataataaat      420
ctacacatgt                                     430

```

<210> 1849

<211> 416

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (96)..(96)

<223> n = unknown

<400> 1849

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aatthataca atattatatg taaaaaggta ttattgaaaa thtatatagt tgtctatggt      60
thtatgatga aatgaaattt taacaaaaaa taacanttht atataataac gggataatt      120
aaaattgtta ttgtthaaac catgacaatg aactthtgagt gagaaattct taataatgaa      180
tacgacaaat atgaattata aaatttcatt tatgtatgta aattaaaaat thttattact      240
thtgctattt ataattcatt taagttggga gattaggtgt ccagctaaat tgaatggaaa      300
agcaaattta aataatacct gtatcgaaaa gagattataa agatgtaatt ataattacaa      360
caattcaaaa attgttataa aagatttaga aaatgtcaaa aaattgattc atgagt          416

```

<210> 1850

<211> 282

<212> DNA

<213> Ctenocephalides felis

<400> 1850

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atthatacac aagaaaatag aacaagcaat atacgagctt tcaaattata catatttaca      60

```

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taaaattaca ttgggaacac gacataccgc gttacacagg agtattatat tttattgggg	120
ttcataatgt agttatTTTT tacgtttatt tgttctttta tttctttgga ttaaaaaaat	180
aagcatacag gacatttttg tgtataaaat atatatgaaa aacaaattgt ttttttaaag	240
cttacaaaat cataaaagaa aagatctatg taatataaaa gt	282

<210> 1851  
 <211> 472  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1851 cggtttgggt gatacaacac caaagacacg ctcagaattg acgttaccat taggtaattc	60
cagggttcacg agagtcaaatt catcaaaggg gtagcgttct ttaaagcgtt tatccaaaga	120
gtcccaagta ttatccaatt cctcatccac aaccaaagga tatgcattct tcgaatccaa	180
actaagttta tcagtgcctt ctacaactac agtgactaca gctttaggta attgaaaagg	240
attcaattta ctactccgt cccattcagc agaactctgc tccgatgtca atcctaaggc	300
tacggaatac aattccttta acaaagattg gggtaaagga gtctcgcctt ggaattggac	360
tccatttgga gaatttaata cactcagttc gccgttgcaa tatatggatg ccacaagggg	420
cagtaaataa attagaacct tttgccacat tttattactt acggataaac gt	472

<210> 1852  
 <211> 118  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1852 ctgtatTTTT cttctgggtca ttatgctgaa ttgcaagaac cttgttaatg ctgcgtgcac	60
caacaacgcg cctccaatga agatattccg tagccgaaga gttcttctca gtgatggg	118

<210> 1853  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (450)..(450)  
 <223> n = unknown

<400> 1853 tttttttttt tttttaagct ttccaacatt tgtattttat tcaaataaat ataaataaaa	60
atcataattc gacaatttta cttgtattta tcttaaacat atttacagta tttcctcaaa	120

aactgttaaa tacaataagt taacttaaat acatggatgt tctgagaatg tggatgagct 180  
 caagattgta gaactgagtt tgatctacac aatTTTTGCC taaaagggtc gactactcag 240  
 aaagcagcca cccgtgattc cataccgcct cacatttgac aataaaatat atgtataatg 300  
 ttaaatagga ttttaatgga aaaaagccaa ttttaacttt tagcattatg aatatgtatt 360  
 tccaaattat tctataacga atttaaccta aaatacaaga aatacatatt cataaatata 420  
 catatatTTT aatacaaaaa ggtaacttgn gcaaaaatga aattcaaata cacttggttt 480  
 gctaatttaa attggtttag 500

<210> 1854  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1854  
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 agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag 120  
 tataattgca tttcacaaca cagcagggaa atatggttat ggtccatatg aagcaatgct 180  
 cgttcttcta tccacttgct tctgataaat gttcggata aagaatgcaa tcaactccaca 240  
 tgctatcaga gatgttcttg atattaaaaa tgttaaatcg caattataat ctagaattat 300  
 tctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatat 360  
 tgccattgcc ctgagttgtg tagggt 386

<210> 1855  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1855  
 cctacacaac tcagggcaat ggcagtatgt atatctttta tgatgggtcg attaggaagt 60  
 gttgttgga gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta 120  
 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcgattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360  
 tattagattc gatgtaagat atatgt 386

<210> 1856

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<211> 270  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1856  
 agatctacta atgccgcggtt taccactgtc acagcaattc cgcaaaccag caaccacaaa 60  
 tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccc 120  
 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aataagcacc 180  
 tattatggga aatccaatcg catatccagc ttccaacatt aaagaatgca taaatgcccc 240  
 ttcttccatt gtgtctttac actcggtcgt 270

<210> 1857  
 <211> 176  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1857  
 aaccaactag agctaagaaa aaagccagcg atagcataga actgctatgt tcccctccaa 60  
 ataccactgt tgttttatca tataaaaatg ccataagtat ggagctaata catccaatca 120  
 ccatcaatat atatatatat gaagagtctt ttatccttcc tgggtaaagt ttctgt 176

<210> 1858  
 <211> 244  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1858  
 aattctgtgt agatgaacat ccaagaccac aaacaactct agaaagtta tccaaattac 60  
 ctacaatttt caagaaagat ggcgttgtca cagctggatc tgcttccgga atatcggatg 120  
 gagcagcagc gattgtttta gcatcagaag aatcctgcaa acagtatggc ttaaaacctt 180  
 tggcaagatt gggttgatac tctacagttg gtgttgaacc tagcataatg ggtatcggac 240  
 ccgt 244

<210> 1859  
 <211> 287  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1859  
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 cctagccata gtgtatagaa aattatgtgt aggtgtataa ttaagattgt caggagtcaa 120  
 atatataaag cattgatata aattatacat tccaattttc tgtaaaccgt gttcttttgg 180  
 tgattatggg ttatatcaca atttatgaat catgtaaatt aattgtaaat ttgaaatgta 240

tctccgatgt aaatgtatta aaaaaaaaaa aaaaaaaaaa aaaaaaa 287

<210> 1860

<211> 498

<212> DNA

<213> Ctenocephalides felis

<400> 1860

tttaaataat ttataaatta atttttgttt cacctttagg gcagtgggtt ccaacccttt 60  
ggcactccca taatcataat tttctggcag taactttttt tttcttgttt tttggtttgt 120  
ttcgcaaccc acaggttgga aactcctttt tagtttaaca gtggtttcca atcttcctac 180  
accgcggtcc ctcatTTTTa aatttttgcg ttttaatttt tttttttaat ttctccagca 240  
atatgatttt ataaattttc aactgatata tattgtttta aaaaaaatat taatagaaaa 300  
aatgctaatt ttataaaaat gtttttattt tgtaaaaatt ggcatctctt ctatcaatat 360  
tttttcttgt atcttcaatc ttatatTTTT atatatTTct ttttttggtt tgtattcaaa 420  
aatagtattt tggaacagc ttcagccttc tgaaaactgc cttgcgcgca ccacagattg 480  
aaaaaactg atttagac 498

<210> 1861

<211> 500

<212> DNA

<213> Ctenocephalides felis

<400> 1861

tttttttttt ttccggtcca tacaactcta agctttccaa catttgtatt ttattcaa 60  
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agtatttcct caaaaactgt taaatacaat aagttaactt aaatacatgg atgttctgag 180  
aatgtggatg agctcaagat tgtagaactg agtttgatct acacaatttt tgccataaa 240  
gttcgactac tcagaaagca gccaccgtg attccatacc gcctcacatt tgacaataaa 300  
atatatgtat aatgttaa 360  
tattgaatatg tatttcctata acgaatttaa cctaaaatac aagaaatata 420  
tattcataaa tatacatata ttttaataca aaaaggtaac ttgtgcaaaa atgaaattca 480  
aatacacttg gtttgcta 500

<210> 1862

<211> 500

<212> DNA

<213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (174)..(174)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (183)..(183)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (380)..(380)  
 <223> n = unknown

<400> 1862  
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 ttttaaataa tcagaaatta ctatagttaa tgacattttg tttgtgctcc ttacataaaa 120  
 tacaatttta tacattttta tttttatata ttttttttat atttaattgc acanatcatt 180  
 tngtatttta ttatattaat tgactacttt atgataattt gaatcctaatt tagtctattc 240  
 aagattgttt tcctgggtta agccttactt agcaatctca cttttgcatt cttcgccggg 300  
 tggcgtgggt atgcatcgca actccgtttt atcaaagtgc aagccatttg gacaatcata 360  
 atgttttatt tgccatttgn tgtaaacaa gaaacattga taatatattt tacaatctct 420  
 tcgatcgga aaaacgtttt cacttttgca tgcagttctg cagagaaaag atttgggcaa 480  
 accattcgtg acgtcgtta 500

<210> 1863  
 <211> 403  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (373)..(373)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (376)..(376)  
 <223> n = unknown

<400> 1863  
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 actggtgcga actacgacaa agttcgggaa accattactt ctaatttata aatctttatg 120  
 ctgagtgcct gctatagatg tttaggctta gatttcaaaa ttttaatggt tcagaaaatt 180

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gttcatgttt gcacaaatta tatgtatata ttttttctta acttcaaata ctaaaattac	240
ttcattgtgc tattttattc attaagcgta ttctacatag atcacatagt gtctttatca	300
gtgagcagtt catagtatat ttaagctaata atattttttg ttactgtatg agttcataaa	360
ggttataaca canaanaaaa aaaaaaaaaa aaaaaaaaaa aaa	403

<210> 1864  
 <211> 488  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1864	
tgcactgaca cattatcttag aaattactgc aattccgaga actcatgtct taaaagaact	60
tgctgaatac tgctctgatg aaaaaaaaaa agaacaatta aaattaatga gctcaactgc	120
tccagaagga aaacaattgt atcaagattg ggttggtgac cagaaccgta atattgtgca	180
tattttggaa gatctgccat catgtcgtcc tccaattgat catctgtgtg aattggtacc	240
tcgcttaca ccacgttatt actcaatttc aagtagtgct aagctgtttc ctaccacagt	300
tcatatcact gctgttctag tgaagtataa aactccaact ggtagaatca acaaagggtg	360
tgcaacatct tggctggcca aggtcaaccc cagtcctgag aaacctcaag ttgtgcctat	420
atttattaga aaaagtcaat tcagactgcc aaccaggtct cagactcaat tattatgggt	480
ggtcctgg	488

<210> 1865  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1865	
catctattaa ttccagtatg gtgcttactt gcaacaacat cctggatagg aagtcttctg	60
attcaacctc cgcgtctaaa ttcataagtc cactttttcc atcttttagga ttagttaaat	120
togataacaa gattttttaa aacatctgta attcaagtaa atcactaata aaaaaatctc	180
tatgtgctgg ctgctcaaga atacttaagg cttcaaaccc aacagcaacc gaagattggt	240
caatttcatt agcatcatct ccagcaataa gatcaatctt gaactccttt tcttctatct	300
tatcattaaa atatgcaaac ataatttctt cttcagtttg actatcatca aatccacttc	360
atagggcagc ttatctaaaa caacacgctt cggttccttg cagtgtatga attgataaac	420
ggcgtgttac caaattcaag aatattgtct acaacgtcta gtcctacctt tacatttctt	480
ttatttttga atctttta	498



<210> 1866  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (66)..(66)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (157)..(157)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (205)..(205)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (325)..(325)  
 <223> n = unknown

<400> 1866  
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 ttttgnnggtt tgggggtccat attttaattt gctacttaac atattctatg attatggatt 120  
 tattcaaaat taatttatcc aaacagctta taaaatngta tttatctttt atccattcaa 180  
 caataaaagt gttaacaaaa aaatncacat agaaatcttt tcagacatgg ccatttaaac 240  
 attttttcat taaggttatc aaaaatatat caggcatggc catttataca ttttttttat 300  
 tagagtcatc aaaaaaatag tatantttct atgttattat tcaaaatcta tacattaata 360  
 aggatgtag aagtttggtc ggtaatttt caggcagagg ttgctattgt agtaatagaa 420  
 caattttaat catctaaaat ttgattaatc tattacattt aatcattcaa tagtaaattt 480  
 ccttttggaa tttcgaatgg 500

<210> 1867  
 <211> 230  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (182)..(182)  
 <223> n = unknown

<400> 1867  
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cttgcttgaa aattgaaaat tactctccat tattttacat gcgataatTT atTTtgTtGt 120  
 agatcaaaga tataagaatt agtgataaat ttaaagaaat aagagaacaa taaacatatt 180  
 gntaaaatca tcattttttat agtaaagat agatttatga caacgtctgt 230

<210> 1868  
 <211> 493  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1868  
 tttttttttt tttttaattt cataaagctt ctatatttat atatttttaa taatcagaaa 60  
 ttactatagt taatgacatt ttgtttgtgc tccttacata aaatacaatt ttatacattt 120  
 taatttttat acatattttt tatatttaaat tgcacagatc atttgtgtat ttattatatt 180  
 aattgactac tttatgataa tttgaatcct aattagtcta ttcaagattg ttttcctggt 240  
 ttaagcctta cttagcaatc tcacttttgc attcttcgcc gggTggcgtg ggtatgcac 300  
 gcaactccgt tttatcaaag tgcaagccat ttggacaatc ataatgtttt atttgccatt 360  
 tgTtgTtaac caagaaacat tgataatatt ttttacaatc tcttcgatcg gaaaaaacgt 420  
 tttcactttt gcatgcagtt ctgacgagaa agattttggg tcaaaccatt cgttgacgcg 480  
 cttcacattt cag 493

<210> 1869  
 <211> 296  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1869  
 catcaccgag aagaactctt cggctacgga atatcttcat tggaggcgcg ttgttggtgc 60  
 acgcagcatt aacaaggTtc ttgcaattca gcataatgac cagaagaaaa atacaggTac 120  
 tgctttttcat tttgtttcag taatagatta cttcttgaga tagataataa tactgtggag 180  
 aagtaacctt cacatgaagt aggcttggtt ctttataatc actggctttg ttctggatat 240  
 tagaaatctg atcacaaaat tttattaagt tattattatg ttaagtaaca tcccac 296

<210> 1870  
 <211> 425  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1870  
 agacgttgTc ataaatctat catttactat aaaaacgatg ttacgtgcat cgaagacgca 60  
 actcttattt cattaaataa aatcacaaac ataaatattt taaatacata tatacaagta 120

FC-8-C3.ST25.txt

aaacatttct tgggtctaaat aatgccatat actttatgat aatattttat attaaaaatgt	180
ttcattatca aattactaat cacttacgga tgtcaataaa caaatctaaa atgatgattt	240
aacaatatgt ttattgttct cttatttctt taaatttatc actaattctt atatctttga	300
tctacaacaa aataaattat cgcagtataa ataatggaga gtaattttca attttcaagc	360
aagattccat gaaagattta atttagaatt gagatttgaa ttaacaatgt ttagttcaga	420
atagt	425

<210> 1871  
 <211> 369  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1871	
cagtgatcaa caaaatgata ttgtcaatca tataactgta ggttatgaaa tccaagaaag	60
tggacagagg ttgcacagca tggtttctca tgtgttgga ttcaataacc aatttttcac	120
gtaatttgtc atcaatggta gacacagata agggggaagg ctcatctgat aaaaagggtgc	180
cataatctgt aactgccagg tgcagcttca aatcttcaag agtttcacat tgcacaagat	240
ttaaataatc ggattgttta agaattccgc acttgaaacc acggcacagg ccttccagat	300
agccaccatc aatattaaac atgaaaccca tttttattca atttatctgg cagtaatcgt	360
ctcgtatta	369

<210> 1872  
 <211> 392  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1872	
aaacctatct aagcatctta aaaataatta attacaacaa ttacactaaa ttaaattaga	60
attaaatctt aaactaacaa attcacttcc acgtgtatgt caaaaataaa atcactcaca	120
aatctttaag caaacaccat gacaagttca ctcttgatga caaagttctt atcttttatt	180
tacaattgtc tttgcacaat aatggattat ttaaattaaa tcactttgat tgatttatgt	240
gatgttcttc atctgatatt ttggatcttc gtcgtccaat ttgggtcaaaa cttgcatttt	300
tgaattggcc ttctogaagg tgctgtatcc tgctgatttt tgctctggag cccaccttct	360
aacttgtggg gccaacagca ttttatccag gt	392

<210> 1873  
 <211> 261  
 <212> DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 1873

```

aaaaaaacta aaaatagcaa cttttgaaga aaagccaata aatctttcgc tgaaacaagt      60
tgatacatgc gattttcaaa aaaaaaaaaa aatcaaaagg aactgcatct tgaaagtgtt      120
tttagaatta tatattttctt taggattcta taaagttaag aatgcctgta caggcatatt      180
ttagcacaat ttttatcatg atgataatta ttttctatat ttcacatatt ggcaaagcaa      240
aaaaaaaaaa aaaaaaaaaa a                                     261

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&lt;210&gt; 1874

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 1874

```

agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa      60
tataaatatg atgctattgt taaatgttca ataatgacac aaattattcc acaaatcccg      120
catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct      180
attatgggga aatccaatcg catatccagc ttccaacatt aaagaatgca taaatgcctg      240
ttcttccatt gtgtctttac actcggtcgt                                     270

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&lt;210&gt; 1875

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 1875

```

aatttcacat cgaataatat tattattctt acattctacc attccttgga atagttacac      60
attcattttt agaaaaaat ataaatacaa ttccatttat catttgcaaa ttttcaattt      120
taaaaaaata ttgattcgat acattttgtg atgtttaccc gtattagccg aagggaatat      180
tttgttgggt tctgttgcgg taaaagaaaa atttgtagat tatttaattt tctataaatt      240
tgccgaatat ttcathttcaa tcaaataaac cgttcaaaag ttataaataa atgcactttt      300
cctaaactca agaacaaaac agtgaagcgc tgtgaatatt tatcaacttt tcaacaaact      360
tttttgagta taccgagttg ctgtagggtc ttctatgtt aggaaaatgt tttagactat      420
tcaattttct atattttctc caaacatatt tttagttttc cgcaaatagt ttttaagtta      480
tcagaaatgt aacgaata                                     498

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&lt;210&gt; 1876

&lt;211&gt; 386

&lt;212&gt; DNA

<213> Ctenocephalides felis

<400> 1876

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atatatctta catcgaatct aataacaata aagagttatt aattttcatg tcgatgtttt      60
agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaaa      120
tataattgca tttcacaaca cacgacggaa atatgggttat ggtccatatg aagcaatgct      180
cgttctttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca      240
tgctatcaga gatgttcctg atattaaaaa tgttaaatacg caattataat ctagaattat      300
tctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatat      360
tgccattgcc ctgagttgtg tagggt                                           386

```

<210> 1877

<211> 206

<212> DNA

<213> Ctenocephalides felis

<400> 1877

```

cggcgcagtt tactacggtc cgtgcaatag accatcaagt gactgcttta attccgaatg      60
ataaaaatta attaagatta aaagtattta catacattaa acgcaaaaat taaatctcat      120
ctcctctttt atgtgcagtt tacttgattg tcgttcggaa aaaaaatcaa agttcgtcga      180
gcgcgtgggt gactaatgtc tgttgt                                           206

```

<210> 1878

<211> 406

<212> DNA

<213> Ctenocephalides felis

<400> 1878

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agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa      60
tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg      120
catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct      180
attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt      240
tcttccattg tgtctttaca ctcggtcgta ctattcgtag tatcaatgaa gtcgtccgcc      300
ctaagcattg atgaattttg gacaacgtag catattgtac ttggtactcc tggatgagcg      360
ttttgaaatt ctgtcatttt acttatgata tcgggaaacc acatgt                                           406

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<210> 1879

<211> 498

<212> DNA

<213> Ctenocephalides felis

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<400> 1879  
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atttaaaaat caaaacatat ttataaaattt ttttggctctt atttctagaa tttattcagc 120  
attagaaaca ttttgaataa ttttcttgaa tattgtgata cctcgaagga aagtttctgt 180  
atctaaatat tcatcatggg catgcagcaa tactggcgtg ttattcatgg gagaaaaacc 240  
aaaagccggc agtccaattt ctcttatata tctgctatct gttgcagctg gaaaaacttg 300  
tggttcaaga acaagtcca tttcatcagt agctctttta aatgctgtcc aaaatttatt 360  
gctttcattc agttcagtgt ttgctatcag tgggtctttt tgtcaaattc tatttcaaca 420  
tccttgccag cttctttgca ccattttcgt atcttttctt ccaattcctt gtggctaagg 480  
atggtgtaat acgtatat 498

<210> 1880  
<211> 353  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (324)..(325)  
<223> n = unknown

<400> 1880  
tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca 60  
aaaggttgca ttaaataac aactagcagc agccagagtt tcaactgatg ttggcattaa 120  
agtaggagaa gccctcagga atgtcgtgga acttcgttta aatttgggaa aatgttcttc 180  
agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg 240  
catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca 300  
aatacataat ctaataaacc agcnngcaaa aaaaaaaaaa aaaaaaaaaa aaa 353

<210> 1881  
<211> 242  
<212> DNA  
<213> Ctenocephalides felis

<400> 1881  
taaaataaag ttacaaagga tttctcaagg tctgggtgaga cgttccacaa aaatttctaga 60  
aatcagaaca atgcttccaa aatacaaata cacgtcctac aatatcacca ttcaacacct 120  
ccaacaattt tactatatca tttactcctc aaaattcgtc ctagtaggct tataaacacc 180  
gacatccttg tcctccgaat ggtagcccaa ggaggccaat tcgtccataa cctcaacatt 240

gt

242

<210> 1882  
 <211> 413  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (165)..(165)  
 <223> n = unknown

<400> 1882  
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 aacacatctc atgtaagggt actttattgt aaaagttatt ttatatgtaa tttttaataa 120  
 cattaataatt atttagttct ttctgttaga tgaattgtgt gttanatctt gtgctgtgat 180  
 ttacatacaa ttttaatacag attgaaatgc aatctataaa agcattatct caataatcat 240  
 tatatagtaa ttttgatttt gactatttgc agataaattc attacatttt aaaatgttta 300  
 ctttattaag ctatacaaac cttgaacttt acactttgta tttctagaac ataagtatta 360  
 aataaattgt taaaaatatt tgtggctaga ttttcctatt gctaattgtg tgt 413

<210> 1883  
 <211> 443  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (197)..(197)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (269)..(269)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (363)..(363)  
 <223> n = unknown

<400> 1883  
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 ttggctggaa aaatgtaact ttactcctat cttctcagac tggcaaagga ttttaacttct 120  
 tagttgaaat ttggggatat tagattagaa atataatgaa aatgtgaata tagaaaatat 180  
 attaaattta caatagngtt ttaaatttga cacacattta tctatgcac cataaataaa 240

ggttatctac tgcattcatt tacaattgnt tatgaattat tatgatttta tgaaattttg 300  
 tacatattcc aacatcaatg gccatgtag aatttgggca tgctattttt ttaatcagat 360  
 aanttatgat gaacctagaa ctatagctat gcttctgatg aaagtctaata gaataattta 420  
 taataaaatt cagaaatcga aaa 443

<210> 1884  
 <211> 251  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1884  
 aataaatata attttattat ataagaaaca tatgtataac aatacaaatt ataactattt 60  
 aacagtcttc ttgtgataat ttcttgacgg ccgtatctgt agactttgat acaccttttt 120  
 tcggtaagct ccagaacacc tgatccctgc cgaatacgtg agcttcagtt agcgtttccg 180  
 gtaacttttg gtgtaaagtt tccggcaaga acattccgga agtcgcgccc accatcatca 240  
 ttacggaaag t 251

<210> 1885  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1885  
 ggatatctgg cgatcatatgt ggttcccaag tatacaatgt atgggcctaa tactcctaata 60  
 gtatttgaaa ctatagttcc aatggaaatt cctgtctgcc tcaaacaggt tggatatggt 120  
 tccattgctt gcagattcac aacataaaaac gtgatgctta tgcaaaattt cattaccacg 180  
 gctaacagtg ggaccaaatt ctggagggat tcatcattgg caatgcatat aagaatggaa 240  
 gatgctgcc gagcaattcc aaaagaagct acagaggtcc aacgtcttcc tattctgtcg 300  
 ctggagaaac gtcctagtag atatgctggg aattctactg ccgattgata taaaagttg 360  
 agaaatggat tacctcccat attgtctcag ttcaaaatta atgtaaaata cgtcacggaa 420  
 catacaatcc agcaaagcac aataagtgtg gtatttctag ctaaacgtaa actagaaaat 480  
 aaactcatgg attccgta 498

<210> 1886  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>



<221> misc\_feature  
 <222> (55)..(56)  
 <223> n = unknown

<220>  
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 <222> (97)..(97)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (175)..(175)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (212)..(212)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (450)..(450)  
 <223> n = unknown

<400> 1886  
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 aatcagaaat tactatagtt aatgacattt tgtttgngct ccttacataa aatacaattt 120  
 tatacatttt aatttttata catatttttt atatttaatt gcacagatca tttgngtatt 180  
 tattatatta attgactact ttatgataat tngaactcta attagtctat tcaagattgt 240  
 tttcctgggt taagccttac ttagcaatct cacttttgca ttcttcgccg ggtggcgtgg 300  
 gtatgcatcg caactcogtt ttatcaaagt gcaagccatt tggacaatca taatgtttta 360  
 tttgccattt gttgttaacc aagaaacatt gataatattt ttacaatct cttcgatcgg 420  
 aaaaaacggt ttcacttttg catgcagtnn tgcacgagaa agattttggg tcaaaccatt 480  
 cgttgcgtcg tcttcacatt 500

<210> 1887  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1887  
 agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa 60  
 tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccc 120  
 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
 attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
 tcttccattg tgtctttaca ctcggtcgt 269

<210> 1888  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1888  
 aaccacgagc attcctattg ttaatgtcgt gactgacgta gcatcgatct tcgtttatct 60  
 tgcagactgc cacttttagct gccaatccg cagcagtgtt gcttgtgcag gtgtcatcat 120  
 tttcgttgca ttttacacat ttcaggggat catttttatt acataggtta ctattgcact 180  
 ttagacaaga cccagatggt gcattttcgc attcttttct aatcgaatca gtttcaggta 240  
 aatcgaccaa acaacctttt tttgtttcag tgccgttaac atagatgtaa cacaatcctt 300  
 cacatttttt ttctcctccg tcatccgttg cacatgacgg gcgctcgaaa tccttattat 360  
 tgcagttagc accgacacaa gttttgcaaa gagtattgcc atcgagata tccttcggtg 420  
 cgcaccctcg attaacttta cttttttcta gtttagcgta gcataattct ccattacata 480  
 tgctaacaat cttgcctt 498

<210> 1889  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (54)..(55)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (72)..(72)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (76)..(76)  
 <223> n = unknown

<400> 1889  
 ttcctttttt tttttttttt tttttttttt taacggccca aacgatttat tttntttaa 60  
 aagatacatg tnattncata aagcttctat atttatatat tttaaataat cagaaattac 120  
 tatagttaat gacattttgt ttgtgctcct tacataaaat acaattttat acattttaat 180  
 ttttatacat attttttata ttttaattgca cagatcattt gtgtatttat tatattaatt 240  
 gactacttta tgataatttg aatcctaatt agtctattca agattgtttt cctgggttaa 300

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gccttactta gcaatctcac ttttgcattc ttcgccgggt ggcgtgggta tgcacgcaa	360
ctccgtttta tcaaagtga agccatttgg acaatcataa tgttttattt gccatttggt	420
gttaaccaag aaacattgat aatatttttt acaatctctt cgatcggaaa aaacgttttc	480
acttttgcac gccagtctgc	500

<210> 1890  
 <211> 331  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (85)..(85)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (88)..(88)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (93)..(94)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (101)..(101)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (109)..(109)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (112)..(112)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (124)..(124)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (190)..(190)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (308)..(308)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (321)..(321)  
 <223> n = unknown

<400> 1890  
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 ctaggggact tccccctaca tttnaantc cgnnttattt nttactttta antttatttt 120  
 ctttattttt atattaactc tataatcttta tctatctatc tattacttca accaataaaa 180  
 ttaagcgtan aatgaataat ttgattaga acaaataat tcatggattt aaaaaaatct 240  
 aaattgtaaa attcttaaat gccttatcat atttgcgagc ctgtgttcaa ccataatatt 300  
 tttttatnta acacataaag naaaacaaag t 331

<210> 1891  
 <211> 393  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1891  
 tggctgttta taggaattta attgagaaag tggaagatca acaggtggcc aaggagcatt 60  
 gcattgcaat ggtgcaaagc aaggtattga aacaattatc catcctggaa caagacggt 120  
 cagatgatga ggatatcggt gctgatgttg aatatttgac cgaaaaatta caagcttcca 180  
 ttcaagacct tagctcattt gatgaatatg ctacagaaat caagtccggc agattggaat 240  
 ggtcacctgt tcacaaatct gctaagttct ggagagagaa tgccccacgt ctcaatgaga 300  
 agaattatga gttattgcgt atattgatcc acttacttga aagctctcgt gatccccttg 360  
 ttctgtctgt agcctgcttt gatattggag agt 393

<210> 1892  
 <211> 492  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (62)..(62)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (481)..(481)  
 <223> n = unknown

<220>  
 <221> misc\_feature

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<222> (483)..(483)

<223> n = unknown

<400> 1892

```

tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60
cntgcaaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt      120
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg      180
ataaaacgga gttgcatgac ataccacgc caccggcgga agaatgcaa agtgagattg      240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt      420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt      480
nanaaaaaaaa aa                                                              492

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<210> 1893

<211> 500

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (2)..(2)

<223> n = unknown

<220>

<221> misc\_feature

<222> (19)..(19)

<223> n = unknown

<220>

<221> misc\_feature

<222> (87)..(87)

<223> n = unknown

<220>

<221> misc\_feature

<222> (247)..(247)

<223> n = unknown

<220>

<221> misc\_feature

<222> (497)..(497)

<223> n = unknown

<400> 1893

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tnttcttttt tttttttnt ttttttttt atcattttta atttatttca tcaactacat      60
tgaaattaaa caaataaaga actattnttc ttaaattaaa gggaaatttt acatcataca      120

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ttcaacatga atcaattcta aaattatgtg aataaccaa attttaaacc attaacacaa	180
atatttttta ttccactta acttattact tattaaaata ttacttggca agtattttta	240
tattttngga ttttttagg tatattataa agacgccttt agttgttgcc ttatgaataa	300
aatacatatt tataatacat tcacatatta tatactaaac tattgagaag acttagacga	360
tttaatggaa ttaatatgaa ggaatttatt aatttaaatt ttataaatat aaaaaatttt	420
agggtttttt ttaagatatc ctatgttata ttataattcg ttttcattta cagatgtggc	480
atataggtat atttttngtt	500

<210> 1894  
 <211> 473  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (383)..(383)  
 <223> n = unknown

<400> 1894	
aaagcttcta tttttatata ttttaaataa tcagaaatta ctatagttaa tgacattttg	60
tttgtgtcc ttacataaaa tacaatttta tacattttta tttttatata tattttttat	120
atttaattgc acagatcatt tgtgtattta ttatattaat tgactacttt atgataattt	180
gaatcctaata tagtctatcc aagattgttt tcctgggtta agccttactt agcaatctca	240
cttttgcatt ctccgcggg tggcgtgggt atgcatcgca actccgtttt atcaaagtgc	300
aagccatttg gacaatcata atgttttatt tgccatttgt tgtaaccaa gaaacattga	360
taatattttt tacaatctct tcnatcgga aaaacgtttt cacttttgca tgcagtctctg	420
cacgagaaag attttgggtc aaaccattcg ttgacgtcgt cttcacattt cag	473

<210> 1895  
 <211> 302  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1895	
taaatgatgt tatagtctaa acagaagatt agtactaaaa aaaggccaaa cattaaaatg	60
gaataaaagc cataaaaatc acttcctttg cacatctagt cacacacttt gatccgaaag	120
ttgcccgaat cgtcagaatt tatgaatttt attataaatt cacaatgatc gcatcacata	180
aaattgtctt taaatctggt tatcttgcag gaaaaatatc gcaaacacgt ttttttctgg	240
cttctaactc aatattttaac acacgtaaat tatcacaccg ttgggcaagc tgatggcctg	300

gt 302

<210> 1896  
 <211> 399  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1896  
 atcgagaata tacccatgag gagaatgata tagcgaccgg agaaaaagat gttccaaatt 60  
 tcaactgttga tttttttggc acccaaactc ttttctctaa ctaccatgaa cagaccgaat 120  
 aacatcataa ttataccgtg gccaatatct ccaaacataa tgccgaacaa aaatggaaaa 180  
 gtaatgatgg tgtacagagc tggatttact tctctgtaac tagcaactcc gtaggcattct 240  
 atcaagtttt ggaaaccttg agtgaatttg ttagttctat taaagggttg aggtgcttct 300  
 tcagtttcaa taacatttag gaaggattcg attgaacttc cacacgcgtt cgatccatca 360  
 gttaaggctt tttgaacaag ttgtagatca ttaactggt 399

<210> 1897  
 <211> 339  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1897  
 cattctagag tatttgggga aagaagattg ttcgataaat caacaatttt agacaaacga 60  
 gaaattaagt aatattataa aaatagatat caatctttca tcttactaat ttgatattga 120  
 taaaaaacga agcaatacat aggggtgtgtg gttgaggcgt ttcttttttt gttttatagt 180  
 agatgaattc taaaacatcc agaaaaataa tatatataaa tcagttaaaa aaatgttttt 240  
 tttcgccctat tcagtatcac aatatcccaa caatgcaata tatgggttggc acccattcaa 300  
 aactaaagta tgacaagacg catagccaat tgaaaatgt 339

<210> 1898  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (59)..(59)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (77)..(77)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (164)..(164)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (380)..(380)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (435)..(435)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (437)..(437)  
 <223> n = unknown

<400> 1898  
 tttttttttt tttttttttt tttttcgttt aaaatacttt atttaataat tattacagnt 60  
 cagttttacat gcaggtncat ttacagtaca tttttttata aataaacgtg atttgcctag 120  
 cagtcttata aaatacagtt caacaattcc ttatacttat cagngctttc taaaataaca 180  
 tacataattt aaatcaaaat taaatacgag taacaaaagt agtaaacaaa tagaattagt 240  
 tctaattttac ttatacctaa actaattcag ataagttgag tagatcgcca ttttctttta 300  
 atttaataaaa aaaaattatg atgtattaaa tatttcacat attgttttta aatgtttcag 360  
 atatcttata caagtttgtn cactattatt acaaagattt cgcttgtagt aatgaaattt 420  
 ttttaaatcaa tattngngta tcatttttgc aataaaaaca tacgagttgc cagtaaccag 480  
 taaatgtaat ggcacacaaa 500

<210> 1899  
 <211> 340  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (223)..(223)  
 <223> n = unknown

<400> 1899  
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 aaagatacat gtaatttcac aaagcttcta tatttatata ttttaaataa tcagaaatta 120  
 ctatagttaa tgacattttg tttgtgctcc ttacataaaa tacaatttta tacattttta 180



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ttttataca ttttttttat atttaattgc acagatcatt tgngtattta ttatattaat 240  
tgactacttt atgataattt gaatcctaatt tagtctattc aagattgttt tcctgggtta 300  
agccttactt agcaatctca cttttgcatt cttcgccggg 340

<210> 1900  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<400> 1900  
tttgtttttc ttttaattga tgcttgctca tagaataatg taaattccgg gcaatctgta 60  
gcggaaacca ggaaatataa tccagctaaa acttgacctt tggatatcacg tgccagtaat 120  
gaacggaagt tgtatactaa attacgcctt actgtcacat ccaactgcagt ataataaggt 180  
ttatgcacat atactagaga taccactaga tttgtagttg ttctctcttc tttaatagtt 240  
ctgtgttgtc gttcatgcc a ttcaacataa tgagaagatt gagggtctata agcatagcaa 300  
tattcgcggt tggcttcacc tggcccttca tcacattgtg taaaccaacc cgtatgtgga 360  
tatttttcat cagccattac tgtcactact cttgcgacgt gatatcctgg atcaciaaagg 420  
actacacctt ttcttccatt tatgcaaata cgaatagcaa ccataacgtg ttctttttct 480  
aaggcgccgc ctggagcc 498

<210> 1901  
<211> 386  
<212> DNA  
<213> Ctenocephalides felis

<400> 1901  
atatacttta catcgaatct aataacaata aagagttatt aattttcatg tcgatgtttt 60  
agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag 120  
tataattgca tttcacaaca cagcagcaa atatggttat ggtccatatg aagcaatgct 180  
cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
tgctatcaga gatgttctctg atattaaaaa tgtaaatacg caattataat ctagaattat 300  
tctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatac 360  
tgccattgcc ctgagttgtg tagggt 386

<210> 1902  
<211> 331  
<212> DNA  
<213> Ctenocephalides felis

<400> 1902

## FC-8-C3.ST25.txt

aaataatact acttacaagt taacctatca cgattattat ataatttttt tgtaaattac 60  
 aagttcttta ctcgatgtca cctcactgta catatgaaac aaagatgtga cgctctttat 120  
 aaatttatca ctaccttata tataatcata tcacctcaca taaatttcat accatgggtg 180  
 tatttacaaa attcagacag tagttgacag agatgtattc gaaatttgaa tcattaaaca 240  
 aaaatatttt gataaaattg atatgtctct ccttaaaaaa aattgaattt ctcatttata 300  
 attatttctt gttctgggca tatgtaatag t 331

<210> 1903  
 <211> 327  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1903  
 tacttcatgt attaagcatt ttgtatgaat attatgtagt cgatgtgtct ctaatatatt 60  
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 agttactaga attattctat tatgctgtat tatatgttaa tataactata ttaaaagaaa 180  
 aattattaat attaatgcat cttttaataa actgaaaaga acagagaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300  
 aaaaaaaaaa aaaaaaaaaa aaaaaaa 327

<210> 1904  
 <211> 466  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1904  
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 ccctagattg ctgcttgaaa caacaactgt atgcacatga cggctatgaa accattctgt 120  
 gcatttccat gcatcgtcaa tgttatgaat tttgcaacca gtgagcaact ccacctcaaa 180  
 ttgatttgga gtaacaatat cagccaatgg aataattaat tctctataaa ttggtaataa 240  
 tgattctgga acatacatTT ttccattatc acctaact ggatcgcaa cgtatgtcaa 300  
 ttttgattt ttttctctca attccttaac gacgtttgca attgttttaa gaaaatctgg 360  
 attagctaca taaccgtta ataatgact gtagacattg ataccattca atgctaacc 420  
 ttctgccagc tctcctaatt ccttgctcgt tagaacttgc cctcgt 466

<210> 1905  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

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<400> 1905  
aaagatatag ttttttaatt gcaacatatt ggctataatc ttgggttggt gaaaatcaac 60  
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ttaaattcct tctaccagaa aaaaaatgac aaaaagaaaa acacgttttt aaccagttac 180  
agtagtggtta ctctcaatc caatgaaatt ttatgcagtt ctgttacaaa attatatctg 240  
ttgtaatat taaaaaagtt aaacttttgc ttaaccaatg aaaataagat ctcaatagaa 300  
gacttaaatt aaatatgata gtgatacatg agcatatggt cataaatcaa ctttctgatt 360  
gattttctat gataaatgca ttgactacac tttttactt actactacac gtcctttaca 420  
gaatgcatat aaattaaat atgcaatata tttatattca ttgagtgaac accgatttgt 480  
aagcaaaaaca gcttaca 498

<210> 1906  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<400> 1906  
ggatatctgg cgtcatatgt ggttcccaag tatacaatgt atgggcctaa tactcctaatt 60  
gcatttgaaa ctatagttcc aatggaaatt cctgtctgcc tcaaacagggt tggatatggt 120  
tccattgctt gcagattcac aacataaaac gtgatgctta tgcaaaattt cattaccag 180  
gctaacagtg ggaccaaatt ctggagggat tcatcattgg caatgcatat aagaatggaa 240  
gatgctgcca gagcaattcc aaaagaagct acagagggtc aacgtcttcc tattctgtcg 300  
ctggagaaaac gtcctagtag atatgctggt aattctactg ccgattgata taaaaagttg 360  
agaaatggat tacctcccat attgctcacg ttcaaaatta atgtaaaata cgtcacggaa 420  
catacaatcc agcaaagcac aataagtgt gtatttctag ctaaactgtaa actagaaaat 480  
aaactcatga ttccgtaa 498

<210> 1907  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<400> 1907  
atctgtcaca gctccccata attctattat aaagtcattt gtaaatccaa atgcttctaa 60  
gtcggatgaa tcgattgcct ctgcaaagtc catcgaatta ctttttcccta cggcgtgttc 120  
ccaaatttgt gtcgccaatt caacatcact gacaccata aacgaatcca atagtgtgtt 180  
gatagcatct attcctagtt gaactttttc atcatgctta agtgtcttat aaactgttat 240

tgatgtctta taaatgactt tatagtccag tcattttaaac ttaaattagg taagaatctc 300  
 agaattcgag acacccatct gcacgtctgt aagtacttgt atattgacat ttaaaagttg 360  
 tcccaaaatc tacattttac catcatagaa gcattcacca ctcgacagag tagtcaatgc 420  
 tcagtttcag ccaactgttg cccttctgaa aatggaaatt gaattatttt ttaatataat 480  
 cgaatttata tcaacagc 498

<210> 1908  
 <211> 420  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1908  
 ctgaattcca gatgtagtga agtaaggaat ctcaaatttc acttgtattg ggggttttcc 60  
 ttccgtatct tcacattcca cacttgga tccaaaatgt gctctcatta ggtattcttt 120  
 accacctgga aatgatttta tggaccaagt aaatgcattc aaatcaggag catatttaac 180  
 acttccaatt gttgttttaa acttcgggga atctgcatca gctggtacag gaatcagtat 240  
 ctccacatta tttgcagttg accgtctttt aaattgtgac ttagctttga tcatgtattc 300  
 tacacggctg tgtgcgtgcc tttcaattac tgattcaatc catatcaagg gttttacatg 360  
 tgtgttaagt cgataagaca ttaactcaa ctctccatca ggaggaataa atgatatggg 420

<210> 1909  
 <211> 409  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (56)..(56)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (351)..(351)  
 <223> n = unknown

<400> 1909  
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 ataaattaaa gtgcgttttt actattttta ttttttatgt aaaaatattt aataaattat 120  
 taagtatttt tataaagatt attgtatggt tggatttatg agcaataagt tctaatatag 180  
 ttcttaacca tacagtcact acatagccta aatcgctcct ttgacaaaat aatactttca 240  
 caagcacttt tcacaaaatt cttacgagtc agttttattc gaagtgtcgc tgttcttacg 300

aataatatct acattgttcg cctttttttc ttggcgccta gtataagcca natcacttgt 360  
 tgggaattgaa ttttttagtga taacaatacg aggtttttct gtcattggt 409

<210> 1910  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1910  
 ttggaattct tgacgaaatt tgagaagaac tttatctcac agggtaatta tgagaaccgc 60  
 acagtatttg aatctttgga cattggctgg caattgttgc gtaccttccc caaggagatg 120  
 ttgaagagaa taccgcgttc caccctcgcc gagttttacc cacgtgattc tcgtcattaa 180  
 aaatcttact aaagtttcca tcaataccat attttatttc cttttatatg atgtcttctc 240  
 catgtaaaga atattaaatc agtttttggg atgtctggta ctaaccacat ccttaatgta 300  
 aggaaaacat gaagacatgt tttaatgttt aaagaaattg tagatactta taaaataatg 360  
 attctattgt taaaatgaaa gtatgttggt gtgaaacagt attctgccgt actagctaca 420  
 agttgttgaa atattatcaa attttattat tatatttggt tttttctgta tgattttaaa 480  
 ttacattcca tgataatt 498

<210> 1911  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1911  
 gaacaatata gataccaaaa tcattttgaa cgagatggaa cttgcgcaag agctcacatg 60  
 gaatcttttag ttgaaggaaa aataaaattc agacatgtca tgaaagaaaa tggagaaaaa 120  
 gttgaattta gtggacagct tagacgtgat gatgaacatt ccggtaatgg atatctgaga 180  
 atcagttatg aagatacaaa tcgagaatcg gattatatag tactaaaaag cgattttgat 240  
 aaatttgcta ttgtgtggag ctgcacaatt catccacgag gaaaaatgga attagcttgg 300  
 attctcacac gtgagcaaaa cccatcatcg gaattgatga aagaaattaa gacatatgtg 360  
 gaaaacaata caccataga tttgagcaaa ctaaaacaca ccgagcaaaa ttgtggaaag 420  
 gattattgaa gataattgct gtatataaag tcattttaag acacagcttt atcaaaacac 480  
 aacaacatat gtttaaga 498

<210> 1912  
 <211> 118  
 <212> DNA

<213> Ctenocephalides felis

<400> 1912

catcactgag aagaactctt cggctacgga atatcttcat tggaggcgcg ttgttggtgc 60  
acgcagcatt aacaagggtc ttgcaattca gcataatgac cagaagaaaa atacaggt 118

<210> 1913

<211> 425

<212> DNA

<213> Ctenocephalides felis

<400> 1913

cttgcttggtg gaggcagcag tggattttgc tcaatataac caaaaacaat aattacaaac 60  
ttttgtcaaa aacaagatca taactgttta tataatataa gaagttctta taataaaagt 120  
gcagtattat ttttacatca atttaaacad cactaaaatc aaacctaac ctcaaaattt 180  
cactaagtga aaatgttgaa gactttatct aatcaaagtg tacgacaaaa cagcactaat 240  
gcctccttag taagtacagt ttttcacaat agaaacccta gaaatttaga acgaatgagg 300  
attgcttata aacctgatgg atggcatgta gataaacctg gacgctcatt ctggcacaaa 360  
ttagagttaa ctgaaagctc tcgatataata actgcacgag tgggtgcattg gaaggaaggc 420  
cctgt 425

<210> 1914

<211> 470

<212> DNA

<213> Ctenocephalides felis

<400> 1914

cgatccacac tagaatctcg tgatggtggc cttttgtaat gatcgaaatg atctatagaa 60  
ctttgttgaa ccaaactcgg tctttctccc acttgtcttg aatttctacg caaatcgtta 120  
ctgataaatt gcctgcaaga atgagtttca gggaacgaaa agaatcggcc aaatgcatgc 180  
aaaaggttgc attaaatata caactagcag cagccagagt ttcaactgat gttggcatta 240  
aagtaggaga agccctcagg aatgtcgtgg aacttcgttt agatttggga aaatgttctt 300  
cagacaattt gaataaatgg gaatccagat tggaagaaat taatgatgtt gtggaaaatt 360  
gcatcgtgtg aaattgtaac ttgaaataat ttttcttaac tattagtttt atagatgaac 420  
aaatacataa tctaataaac cagcacgtga aaaaaaaaaa aaaaaaaaaa 470

<210> 1915

<211> 498

<212> DNA

<213> Ctenocephalides felis

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<400> 1915  
 ttacctgaa agtataaatg gtgctttccc agaattcctt tcccaaaagt aagccgtcaa 60  
 cgctgtaatt aaaacgatca aggcatttct tccagttgaa ataaaccata aggttctttt 120  
 taaaacagga ctggagactt tcaaatcttt tatttgcctt aatgttaaaa gaaaaactat 180  
 acagcataag gcaagtatag aatcagctaa tctcgcattt gatatccttt gtattagctg 240  
 catcaatgta tccacaaatc catgtcctgt ataatgcagc cctagcaaac cttttgcctg 300  
 cgcacaaata attattaacg acatcgcgga tgtaaaaccc gatacgattg gggcacttat 360  
 gaaatcgact aaaaatccaa gtttcagtaa tcccatcata agttcaatgc aaccagctaa 420  
 aaagcctagt aaaactacat attcgactgg tttttcatga caatattcca aaaccatcag 480  
 agcaactaaa cttgtggt 498

<210> 1916  
 <211> 292  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1916  
 aaattataag ataccggaaa catttaaata aacgatatat gaatatttaa tacatcataa 60  
 aaaagaattt attaaattaa aagaaaatgg cgatctactc aatttatcta aaatagtttt 120  
 taggtgtaag aagattagaa ctaattctat ttgtttacta cttttgttac tcgtatttaa 180  
 ttttgattta aattatgtat gttatttttag aaagcactga taagtataag gaattgttga 240  
 actgtatttt ataagactgc taggcaaatc acgtttattt ataaaaaat gt 292

<210> 1917  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (58)..(59)  
 <223> n = unknown

<400> 1917  
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 caagcttaaa ctttgcgtat tatgtaaaat taaaatatac aaaaaatata ctttgagtaa 120  
 atatgttgct aatgatatat cattgatata gaaggctttt tatcagcttt ttataaattt 180  
 cgataacaca gatattgata aataaattac atgtgacccg gcaatgcttg aggtccctgc 240  
 ataaatatat ttgaccccat tcgctgctga tattgcacac tttgttgga ttcacgtta 300

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ggattagaat ggcttgatgc aggtatggtt cccatgccat ttgtaatatg caatccattt	360
aaatggtgag acatttgatg tattaacata ggattagggc ctggttggtg ttgtcctatt	420
ggttgaggat tattcgctag ggacatttga gaactgttct gaatcaattg ctttggtggc	480
tgactttgat ttactatt	498

<210> 1918  
 <211> 321  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1918 cgtgggttttg gagtatctgt tcaaggatc atcatctacc gtgcagcata ctttggttc	60
tatgacacca ctctggaat gttgccagac cccaagaaca cccattagt tatcagctgg	120
gccattgcac aagccgtcac aactgttgct ggtattgtgt catatccatt cgacactgtc	180
cgtaggcgta tgatgatgca gtctggacgt gcaaagtctg aaatgttgta caagggaaca	240
ctgcactgct gggccaccat tgccaagaca gaaggaagtg gtgccttctt caagggagct	300
ttctccaata tcttcgtgg t	321

<210> 1919  
 <211> 330  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (134)..(134)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (171)..(171)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (178)..(178)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (311)..(311)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (328)..(328)  
 <223> n = unknown



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<220>
<221> misc_feature
<222> (330)..(330)
<223> n = unknown

<400> 1919
aaaatggcat tataatgcaaa ttataggctg agcctttata aatctgtgaa tgaaccacac      60
cactctatct tctaacctaa agtgcaatct tgttttacag aatttcctta ataggtaata      120
tttttaattg cagngtatca tattatagtt tgtaggtggt atattttatt ngtaaatngt      180
tgttcatatt tctcaaacga ttgtttatgt attacacagt attaaaataa accttggatg      240
caataattgt tataacaaca ttgttgtagg taataaaaatt ttatcagtgg attataatca      300
aaaaaaaaaa naaaaaaaaa aaaaaaanan      330

<210> 1920
<211> 313
<212> DNA
<213> Ctenocephalides felis

<400> 1920
aattcttggc tataagttcg ttgcatgttt tgcaagtgat ttgtttattg catttattcc      60
cgtggcatat ttacatgaa tcagagtttg cattacaatc gttaccctga tctgatttgc      120
atcctcgagt aatgacacct ttttcaatct ttgaatagca gtcgtccttt ggattcatac      180
aaactttggc cttcgtcttt cctgcatctt tgaaacattc gtttcttagt tctggaagtt      240
tttgaacggt acaaccgat ttctcgcaac acattttttc tcggttagtc gagtcacaac      300
tttctttaac cgt      313

<210> 1921
<211> 118
<212> DNA
<213> Ctenocephalides felis

<400> 1921
ctgtattttt cttctggtca ttatgctgaa ttgcaagaac cttgttaatg ctgcgtgcac      60
caacaacgcg cctccaatga agatattccg tagccgaaga gttcttctca gtgatggt      118

<210> 1922
<211> 229
<212> DNA
<213> Ctenocephalides felis

<400> 1922
cgtggttttg gagtatctgt tcaaggtatc atcatctacc gtgcagcata ctttggattc      60
tatgacaccg ctggtggaat gttgccagac cccaagaaca cccattaggt tatcagctgg      120

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gccattgcac aagccgtcac aactgttgct ggtatttgt catatccatt cgacactgtc 180  
 cgtaggcgta tgatgatgca gtctggacgt gcaaagctctg aaatgttgt 229

<210> 1923  
 <211> 313  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1923  
 aattcttggc tataagttcg ttgcatgttt tgcaagtgat ttgtttattg catttattcc 60  
 cgtggcatat ttacatgaa tcagagtttg cattacaatc gttaccctga tctgatttgc 120  
 atcctcgagt aatgacacct ttttcaattt ttgaatagca gtcgtccttt ggattcatac 180  
 aaacttttgt ctctgtcttt cctgcatctt tgaaacattc gtttcttagt tctggaagtt 240  
 tttgaacgtt acaaccgat ttctcgcaac acattttttc tcggttagtc gagtcacaac 300  
 tttctttaac cgt 313

<210> 1924  
 <211> 196  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1924  
 atcatagcc tacggacagt gtgcaatgga tatgacacaa taccagcaac agttgtgacg 60  
 gcttgtgcaa tggccagct gataactaat ggggtgttct tgggtcttg caacattcca 120  
 cgagcgggtg catagaatcc aaagtatgct gcacggtaga tgatgatacc ttgaacagat 180  
 actccaaaac cacggt 196

<210> 1925  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (62)..(62)  
 <223> n = unknown

<400> 1925  
 agatctacta atgccggtt taccactgtc acancaattc cgcaaaccag caaccacaaa 60  
 tntaaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg 120

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catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
tcttcattg tgtctttaca ctcggtcgt 269

<210> 1926  
<211> 252  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (56)..(57)  
<223> n = unknown

<400> 1926  
cttttgga accgcccagg tacaacattt cagactttgc acgtccagac tgcattntta 60  
tacgcctacg gacagtgtcg aatgggtatg acacaatacc agcaacagtt gtgacggctt 120  
gtgcaatggc ccagctgata actaatgggg tgttcttggg gtctggcaac attccacgag 180  
cgggtgtcata gaatccaaag tatgctgcac ggtagatgat gataccttga acagatactc 240  
caaaaccacg gt 252

<210> 1927  
<211> 386  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (284)..(284)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (340)..(340)  
<223> n = unknown

<400> 1927  
atttatttcc aatttgcaaa tatggaaact accatcccta tattatatat aattgtatat 60  
attcctgaat tgttttattt gaatttattt taaacacaaa ctttaattat attcaaataa 120  
tgatggacgt gatttcatat atccctaacc tttggatcag agtttgagag aagcctagcc 180  
atagtgtata gaaaattatg tgtaggtgta taattaagat tgtcaggagt caaatatata 240  
aagcattgat acaaattata cattccaatt ttctgtaaac ccngtttctt tggttgatta 300  
tggtttatat cacaatttat gaatcatgta aattaattgn aaatttgaaa tgtatctccg 360

atgtaaatgt attaaaaaaaa aaaaaa 386

<210> 1928  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> n = unknown

<400> 1928  
 caataaatat ngaattttaca ggcttatgaa caccattaag agtaaacctc aatttgatca 60  
 cagcaccctt ctctcccaac tcaatcttct tcgtataccc catgtaattg atatgattag 120  
 ccctttcctc ttcctcgaaa taaacccaat tatgtagacc tgttacttca caatttttta 180  
 attcagctaa gaaaacatgc tcaaatgctg aactaccgat ttgcccacct cctctggagt 240  
 ataaattaaa ccaaatcggt ttcaataaat ccttatgagt ttggggatct ctagtcacaa 300  
 ttcccttttc aataaaaaaaaa ttcataagat gtcgcatcag gctgggtgat aacattgcat 360  
 ctaacaaagc attttcttca tttctttctt gtgcagttac atgttcattt actgcagtat 420  
 ctaattcata attattaaat aatgggttca taagcgctat agttttaata tcaaaagctg 480  
 actgattcac aacaagca 498

<210> 1929  
 <211> 311  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1929  
 attttttgat ttattttataa ataacttttag gtgtccgcca ctaggggact tccccctaca 60  
 tttagaagtc cgtattatctt cttactttta attttatctt cttcattttt atattaactc 120  
 tataatcttta tctatctatc tattagttca accaataaaa ttaagcgtaa aatgaataat 180  
 tttgattaga acaaatatat tcatggattt aaaaaaatct aaattgtaaa attcttaaatt 240  
 gccttatcat atttgcgagc ctgtgttcaa ccataatatt tttttatata acacataaag 300  
 taaaacaaag t 311

<210> 1930  
 <211> 385  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (26)..(27)  
 <223> n = unknown

<400> 1930  
 ggtgggctaa tataggatac tttatnntta ccgtaggtcc aaattagttg acaaaattaa 60  
 actgagattt gtaataaaga ttgcaaacat tttcaaaaaa aaaaaaaaaa ttgaaaattt 120  
 tacgattttt ttcggaggag ggtaattttc aatatacggg ttcacagagg ggaaagggga 180  
 tttcaaaaat tttcaaaaaa atcgattacg tgattaagtg acgtccccga gcacaaaact 240  
 tatggttcca aatataattta aaatattaaa agtccaaatg tccaaaatct gtattacaaa 300  
 tctgtcagtc tttttgcaat cctttatcaa atattatttt ccatcaaagc acacactttt 360  
 ttatacatgc attttccaaa tacgt 385

<210> 1931  
 <211> 282  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (38)..(38)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (67)..(67)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (233)..(233)  
 <223> n = unknown

<400> 1931  
 nctnggaatt cttgacgaaa ttcgagaaga actttatntc acagggtaat tatgagaacc 60  
 gcacagnatt tgaatctttg gacattggct ggcaattggt gcgtatcttc cccaaggaga 120  
 tgttgaagag aataccgct tccaccctcg ccgagtttta tccacgtgat tctcgccatt 180

aaaaatctta ctaaagtttc catcaatacc atatatttatt tccctttata tgntggcctc 240  
 tccatgtaaa gaatattaaa tcaagttttt gggatgtctg gt 282

<210> 1932  
 <211> 279  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1932  
 ttggaattct tgacgaaatt cgagaagaac tttatctcac agggttaatta tgagaaccgc 60  
 acagtatttg aatctttgga cattggctgg caattgttgc gtatcttccc caaggagatg 120  
 ttgaagagaa taccgccttc caccctcgcc gagttttatc cacgtgattc tcgccattaa 180  
 aaatcttact aaagtttcca tcaataccat attttatttc cttttatatg ttgtcctctc 240  
 catgtaaaga atattaaatc agtttttggg atgtctggg 279

<210> 1933  
 <211> 350  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> n = unknown

<220>  
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 <222> (64)..(65)  
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<400> 1933  
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 tcgatctgga ctttgatctg tatcaactct ctcattttca gctttgttgc gtttcttttc 180  
 ataaatgaga ataatcgcg ataaaattat tacttcagca cagataccca aaaatggcca 240  
 caaagcagct aatttatctt gaactcgaac caaggttgta gaattaacag taattccaat 300  
 gccttgatta gtagcaatac atgtatatc tctcgcgacg cttttttcag 350

<210> 1934  
 <211> 397  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (14)..(14)  
 <223> n = unknown  
  
 <400> 1934  
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 tgtcggagat aaagctaatt tatttttcat tgcttctttc catgcctggt gttgctgaaa 120  
 caaaatattc ctaataatag tcattccagga cgatctttca tcgccacttg agcattttat 180  
 atggaaaatt ctagatttat tttctgaact cgtcagggtta aatgcatata aagacttctg 240  
 acattcgaca ggtggtaaaa ttctatccag atatatagtc tttgcaggta aaaaactctt 300  
 cattgttcac aatagtaggt tcaagtaaac agtattaaat tctcgacag aaaaatctga 360  
 tatttcaaac ttcttttatt gactatggct ttgctgg 397

<210> 1935  
 <211> 424  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<220>  
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<220>  
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 <222> (57)..(58)  
 <223> n = unknown

<220>  
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 <222> (189)..(189)  
 <223> n = unknown

<220>  
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 <222> (220)..(220)  
 <223> n = unknown

<400> 1935  
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 atttatactt aaaacaataa aaaatgcggt ttattaaaag ttgcaagcag ttaaataaaa 120  
 tgttgaataa ataatagtga taaatcattg cataatgatg caactcataa ttattaagta 180

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aattgtctnt aacaactact acattatcag atctatccgn cacttcttaa tattcaataa 240  
tattatggat atcaggcctc ttatcacttt atagattttt aattaatcta tttaatatta 300  
aataaaaaat aaatttaaaa ccattaaacc gatacattgc ctttaaataa aataaatcac 360  
cataaccttt attaagcttg tatgtaatat gcaatagcaa tttcatataa cacactcact 420  
aggt 424

<210> 1936  
<211> 498  
<212> DNA  
<213> Ctenocephalides felis

<220>  
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<222> (3)..(3)  
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<220>  
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<223> n = unknown

<220>  
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<222> (31)..(31)  
<223> n = unknown

<220>  
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<222> (35)..(35)  
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<222> (45)..(45)  
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<220>  
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<223> n = unknown

<220>  
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<223> n = unknown

<220>  
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<222> (140)..(140)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <222> (481)..(481)  
 <223> n = unknown

<400> 1936  
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 gggatncatg taatttcata aagcttctat atttatatat tttaaataat cagaaattac 120  
 tatagntaat gacattttgn tngtgctcct tacataaaat acaattttat acattttaat 180  
 nttttatacat attttttata ttttaattgca cagatcattt gtgtatttat tatattaatt 240  
 gactacttta tgataatttg aatcctaatt agtctattca agattgtttt cctgggttaa 300  
 gccttactta gcaatctcac ttttgcatte ttcgccgggt ggcgtgggta tgcacgcgaa 360  
 ctccgtttta tcaaagtga agccatttgg acaatcataa tgttttattt gccatttggt 420  
 gttaaccaag aaacattgat aatatttttt tacaatctct tcgatcggaa aaaaccgttt 480  
 nacttttgca tgccgtct 498

<210> 1937  
 <211> 353  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1937  
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 agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcttc 180  
 agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg 240  
 catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca 300  
 aatacataat ctaataaacc agcaagcaaa aaaaaaaaaa aaaaaaaaaa aaa 353

<210> 1938  
 <211> 446

<212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (63)..(63)  
 <223> n = unknown

<220>  
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 <222> (205)..(205)  
 <223> n = unknown

<220>  
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 <222> (417)..(417)  
 <223> n = unknown

<220>  
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 <222> (422)..(422)  
 <223> n = unknown

<220>  
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 <222> (430)..(430)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (434)..(434)  
 <223> n = unknown

<400> 1938  
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 gtnttgaata tgaaaaccaa caataaactt ggaaaaaaat attttgaata caaagttaaa 120  
 cgtgctgata ctgaattaaa aaaaggctgt gataaaacct gtcttaaaaa tcatttgtgc 180  
 gcaatagtta ccacagttgt atcanatctc atccagtgca aaaatatcat caaatcatca 240  
 tcaagcattc ttcagcattt gaatatatat gtcctaggag ctattgtaat ttccaattat 300  
 ttattattat aaagtcattt ttgttaagtt attataaatt tagaataaat cattatgttg 360  
 gaaatatgta aacgctttga aaaagctagg atcaaatcaa atatttttag aaaaatncga 420  
 anaataaaan aaanaaaaaa aaaaaa 446

<210> 1939  
 <211> 373

<212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (26)..(26)  
 <223> n = unknown

<220>  
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 <222> (28)..(28)  
 <223> n = unknown

<400> 1939  
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 gcatatccta ttggtttaga tccaatgtgg cagctggcta ccaacaaaat tattttcttg 180  
 aactccttta aaatgaagtt gtctatcatt ttcggcgctg ttcacatgat ttttggagtt 240  
 tgcattggccg tattcaatca cgttcatttc cgccagaaga tcagcatatt agtagaattt 300  
 ttgcccacat tgggtcttct agttcttctc ttgcttaca tgggtgttcat gatgtttatt 360  
 aaatggattt tgt 373

<210> 1940  
 <211> 395  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1940  
 atattatatt cacaataatc taatcttcca agttgcggaa tgcttgctgt aaatcctcat 60  
 gtaattgata aaaatcactc ttgatctttg cctcaccatc cttgactggg tccttgaact 120  
 tcattgagga caactgatat agaattattgc ccatagcatc tctaattgga ttccaggtaa 180  
 tcttgttttc actttgtgca gtagattcag ctgcgtattt tgccatatca tagaaagcaa 240  
 taatgttacg taacatacca actgttttat agaaggggca gaaacgatca tatgatgagt 300  
 agctgttctg ctgtaggaaa tcgtctttca agagcttggc aacttcaagt gtgatcttgt 360  
 cagtttccgc caaggaggct ttaccaacca attgt 395

<210> 1941  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<222> (392)..(392)  
 <223> n = unknown

<220>  
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<220>  
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<220>  
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 <223> n = unknown

<220>  
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 <222> (466)..(466)  
 <223> n = unknown

<220>  
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 <222> (485)..(485)  
 <223> n = unknown

<400> 1941  
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 aacggtgtca tggaaagtta ttaatgagggc ttatgacgaa tcatccgatc gaatcaaatt 120  
 gttagatcat gacaatatac caaattctgc tttggaaatt gatttggctg aaaaaagcga 180  
 tcgaggagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttaattctac 240  
 aaccttgggt cgagttcaag ataaattagc tgctttgtgg ccatttttgg gtatctgtgc 300  
 tgaagtaata attttatgcg cgattattct catttatgaa aagaaacgca acaaagctga 360  
 aatggaggag agtgatacag atcaaagtc anacgaaaa aatcttctga tcacatgaag 420  
 gacactgatg tgangcatan gaagtnaacc aaaaatttaa tctagntgaa taaaagtcac 480  
 gccngagtga gaagtaat 498

<210> 1942  
 <211> 426  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1942  
 ccaatggaaa ttctgttcta cctcaaactg gttggatatg tttccattgc ttgcagattc 60  
 acaacataaa acgtaatgct tatgcaaaat ttcattacca cggctaacag tgataccaaa 120  
 ttctggaggg attcatcatt ggcaatgcat ataagaatgg aagatgctgc cagagcaatt 180

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ccaaaagaag ctacagaggt ccaacgtctt cctattctgt cgctggagaa acgtcctagt 240
agatatgctg gtaattctac tgccgattga tataaaaagt tgagaaatgg attacctccc 300
atattgctca cgttcaaaat taatgtaaaa tacgtcacgg aacatacaat ccagcaaagc 360
acaataagtg tagtatttct agctaaacgt aaactagaaa ataaactcat gattccgtaa 420
actttt 426
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<210> 1943
<211> 281
<212> DNA
<213> Ctenocephalides felis
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<220>
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<222> (28)..(28)
<223> n = unknown
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gttttattgc agtttctaac gcgagtgggc aaaaaaagtt gcaaaatacc aaatttcaag 180
attttgatat gaaattattc aataattaaa tatcttataa aagggcggag ctaaatcata 240
aaaaaaaaatt aaatatcatg ttaaaatttt gcatgggttg t 281
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<210> 1944
<211> 475
<212> DNA
<213> Ctenocephalides felis
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<220>
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<222> (14)..(14)
<223> n = unknown
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<220>
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<222> (32)..(32)
<223> n = unknown
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<223> n = unknown
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<223> n = unknown

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<222> (86)..(86)

<223> n = unknown

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<222> (473)..(473)

<223> n = unknown

<400> 1944

tggacaacca ttcnaaattc caaaaggaaa tntactattg aatgattaaa tgtnatanat 60

taatcaaatt ttagatgatt aaaatngttc tattactaca atagcaacct ctgcctgaaa 120

attaaccgaa caaacttcta acatccttat taatgtatag attttgaata ataacataga 180

aattatacta tttttttgat gactctaata aaaaaaatgt ataaatggcc atgcctgata 240

tattttttgat aaccttaatg aaaaaatggt taaatggcca tgtctgaaaa gattttctatg 300

tgtattttttt tgtaaacatt ttattgttga atggataaaa gataaatata attttataag 360

ctgttttgat aaattaatgt tgaataaatc cataatcata gaatatgtta agtagcaaata 420

taaaatatgg accacaaacc acaaaatgta tacgaaatat aacttatatg atntt 475

<210> 1945

<211> 204

<212> DNA

<213> Ctenocephalides felis

<400> 1945

cagttaatga tctacaactt gttcaaaaag ccttaactga tggatcgaac gcgtgtggaa 60

gttcaatcga atccttccta aatgtttattg aaactgaaga agcacctcca acctttaata 120

gaactaacia attcactcaa gggtttccaaa acttgataga tgcctacgga gttgctagtt 180

acagagaagt aaatccagct ctgt 204

<210> 1946

<211> 498

<212> DNA

<213> Ctenocephalides felis

<220>

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<222> (214)..(214)

<223> n = unknown

<220>

<221> misc\_feature

<222> (316)..(316)

<223> n = unknown  
  
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<223> n = unknown  
  
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<222> (463)..(464)  
<223> n = unknown  
  
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&lt;222&gt; (470)..(470)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (492)..(492)

&lt;223&gt; n = unknown

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&lt;221&gt; misc\_feature

&lt;222&gt; (496)..(496)

&lt;223&gt; n = unknown

&lt;400&gt; 1946

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tgaatgatta aatgtaatag attaatacaa ttttagatga ttaaaattgt tctattacta 120

caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat 180

agatttttgaa taataacata gaaattatac tatntttttg atgactctaa taaaaaaaaat 240

gtataaatgg ccatgcctga tatatTTTTg ataaccttaa tgaaaaaatg tttaaatggc 300

catgactgaa aagatnctat gtgtattntt ttgncaacat ttattggtga atgggataaa 360

anataaatcc anttataagc tgtttggata aattaatttg natnaatcca taatcttaga 420

attggtaagg tanccaaatt aaatttggnc ncaancacaa aanntttccn aatttacctt 480

tttgattttt gnngganat 498

&lt;210&gt; 1947

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 1947

gaggagactt tgtttaccgt aatggacaac cattcgaaat tccaaaagga aatttactat 60

tgaatgatta aatgtaatag attaatacaa ttttagatga ttaaaattgt tctattacta 120

caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat 180

agatttttgaa taataacata gaaattatac tttttttttg atgactctaa taaaaaaaaat 240

gtataaatgg ccatgcctga tatatTTTTg ataaccttaa tgaaaaaatg tttaaatggc 300

catgtctgaa aagattttcta tgtgtatttt tttgttaaca ttttattgtt gaatggataa 360

aagataaata caattttata agctgttttg ataaattaat tttgaataaa tccataatca 420

tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaaatg tatacgaaat 480

ataacttata tgatatac 498

&lt;210&gt; 1948



<211> 235  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (27)..(27)  
 <223> n = unknown

<220>  
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 <222> (99)..(99)  
 <223> n = unknown

<220>  
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<220>  
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 <222> (115)..(115)  
 <223> n = unknown

<220>  
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 <222> (158)..(158)  
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<400> 1948  
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 gcaagccatt tggacaatca taatgtgtta tttgccantt gttggtaacc aagaacatt 180  
 gataaatattt ttacaatct cttcgatcgg aaaaaacgct ttcacttttg catgc 235

<210> 1949  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1949  
 agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa 60  
 tataaatatg atgctattgt taaatgttca ataatgcat aaattattcc acaaattccg 120  
 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
 attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240

tcttccattg tgtctttaca ctcggtcgt

269

<210> 1950  
 <211> 446  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (64)..(64)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (437)..(437)  
 <223> n = unknown

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 ctatatataa agagaatata ccttgaagag tggcttgaaa cgaatattga aaggcaaacc 180  
 tgcaaaatta gctttagaat aattttatta taatgtttga attgaaatgt atttgaattt 240  
 aaatatgagt taagttttaa ataaaagctt ttttattttt acattataat attatgccat 300  
 tagcctatat tgttacacag ttaaatttaa atgtatttaa taaatggggt tacaactaaa 360  
 caaatcacia acacacataa atataataaa aactggatga aaataattga atatatatat 420  
 aaatagtaaa aaaaaanaaa caaaaa 446

<210> 1951  
 <211> 297  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (35)..(35)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (53)..(53)  
 <223> n = unknown

<220>

<221> misc\_feature  
 <222> (164)..(164)  
 <223> n = unknown

<400> 1951  
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 ggtgtagggt caggagtagg tactactcct ggtgcgggct catncaatga cgcaaatact 180  
 tctttatttta ctgttaaagg cgttccgtcg acattaaact caccatcata agcggtaacg 240  
 acagataacg ccacaaaact aataaaaacc aatgtgatat aaaacattct aataaat 297

<210> 1952  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1952  
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 catgcaaaag tgaaaacggt ttttccgacg gaagagattg taaaaaatat tatcaatggt 120  
 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcgatgc ataccacgc cgcccggcga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
 cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt 480  
 catgtatctt ttttaataa 498

<210> 1953  
 <211> 269  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (30)..(30)  
 <223> n = unknown

<400> 1953  
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 catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180

attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
 tcttccattg tgtctttaca ctcggtcgt 269

<210> 1954  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n = unknown

<400> 1954  
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 ttgctcgtcc gcaacgacat agtcgttttg caagatttat ccatgtataa ttttcgccat 120  
 tcgtatccaa aattctcttt ggatcttgat catgttaaag ttgctttaac ggcattgggt 180  
 cgtatgcatg caagttgcat tatctacgag aagaaaaaaaa attgttgcgag ggggagagtt 240  
 tacaaagatc ttatgttcga gactatggcc aacaataatc aatggtggag aactggtgag 300  
 gatactgctt tagcaattgc tgaggaatct gagaaattcg gcaaataac cgaataccat 360  
 tccatgggcc aggagaagtt aattgatttc ctgagattgg catgggtctat ggtaaaacca 420  
 tcgcgcatctt ataagaatgt ggtatgccac cgcgatacgc gcaatcaciaa tttgatgttc 480  
 aaatataatt caactggt 498

<210> 1955  
 <211> 497  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (29)..(30)  
 <223> n = unknown

<220>  
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 <222> (37)..(37)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (46)..(46)  
 <223> n = unknown

<220>  
 <221> misc\_feature

<222> (58)..(58)  
 <223> n = unknown

<220>  
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 <222> (148)..(148)  
 <223> n = unknown

<220>  
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 <222> (235)..(235)  
 <223> n = unknown

<220>  
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 <222> (250)..(250)  
 <223> n = unknown

<220>  
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 <222> (254)..(254)  
 <223> n = unknown

<220>  
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 <222> (268)..(268)  
 <223> n = unknown

<220>  
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 <222> (276)..(276)  
 <223> n = unknown

<220>  
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 <222> (279)..(279)  
 <223> n = unknown

<220>  
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 <222> (313)..(313)  
 <223> n = unknown

<220>  
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 <222> (320)..(321)  
 <223> n = unknown

<400> 1955  
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 aaataaaatt tcttaactta atagcgcaag aagcatattg tataaaaaaa gcttttgtat 120  
 aaagtcttta tttttatttt catattgngc cctaataaga tttatactta aaacaataaa 180  
 aaatgcggtt tatttaaaagt tgcaagcagt taaataaaat gctgaataaa taatngtgat 240  
 aaatcattgn atantgatgc aactcatnat tattancgna aattggctat aacaactact 300

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acattatcag atntatccgn nacttcttaa tattcaataa tattatggat atcaggcctc	360
ttatcacttt atagatTTTT aattaatcta tttaatatta aataaaaaat aaatttaaaa	420
ccattaaacc gatcattgcc tttaaataa ataaatcacc ataaccttta ttaagcttgt	480
atgtaatatg caatagg	497

<210> 1956  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (57)..(57)  
 <223> n = unknown

<400> 1956	
attattcata agacatcaaa gactttatta cataagggac aacatagtaa ttaaagntac	60
agaaacaatg cagagtcaat acttcgattg cttataggaa ttcattggagg tcgaagaaat	120
ttctagtata tttttgattt caaatTTTaa tactcagtta atggatatgaa tgctaagtct	180
ctctctactt tattcatata tgacaatatt gcacatttgt gcacgaaacc ttgagttgaa	240
tttttcagag atagttatgc atgaaatggt gaataccagt atttgctcca acggccttcc	300
tgcatgcgtc tatatggaag ctatgaactc attttaaagt tgaagatttt atggaattaa	360
ttataagagc ataatgactc tgagtttgag gaacttgctt atgtttaact aaatcatttg	420
tcaacaacat ttaaagtcgg aactgttcac aactggaaac aggatatctg catttataat	480
actttaataa taattgca	498

<210> 1957  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (30)..(31)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (59)..(60)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (344)..(344)

<223> n = unknown

<220>

<221> misc\_feature

<222> (487)..(487)

<223> n = unknown

<400> 1957

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tagtctaaat gttttatttg tttctttctn nagttaatca atatttgaca ttttatatnn      60
taatattgaa taatttaatt tttattatgt ggctctcgga taatcgggtca ataaaaaaaa      120
aaatatgaat gaatgatatt taacacgcat attattatta tactatttgt tctttgagtg      180
tgtatgatgc tccgtgttat tttttgaac tcgactccat tcggagtcta tgcaaaggca      240
tatatatgtg agtgtgtgta agaatatatt tcaaagatta tatttgcttt actttttaat      300
agataatatt atatttttgt taatgttaat gactatatta tggntatttt gttctttttg      360
agctctatgt atgaaatttt atgctgagac aaaattgccg gtagtattaa gtgtgcattc      420
atgccataac tccaaacttt tgttagaata attcacaatt ttatgtcaga ggtattatat      480
agggtgnaaa acaattta                                     498

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<210> 1958

<211> 331

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (54)..(54)

<223> n = unknown

<400> 1958

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tttttttttt tttttttttt tttttttgat ttatttataa ataacttttag gtgnccgccca      60
ctaggggact tccccctaca tttagaagtc cgtattatgt cttactttta attttatgtt      120
cttcattttt atattaactc tatatcttta tctatctatc tattagttca accaataaaa      180
ttaagcgtaa aatgaataat ttgattaga acaaataat tcatggattt aaaaaaatct      240
aaattgtaaa attcttaaat gccttatcat atttgcgagc ctgtgttcaa ccataatatt      300
tttttatata acacataaag taaaacaaag t                                     331

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<210> 1959

<211> 330

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature  
 <222> (58)..(58)  
 <223> n = unknown

<220>  
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 <222> (84)..(84)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (92)..(92)  
 <223> n = unknown

<400> 1959  
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 taggggactt cccctacat ttanaagtcc gnattatttc ttacttttaa ttttattttc 120  
 ttcattttta tattaactct atatctttat ctatctatct attagttcaa ccaataaaat 180  
 taagcgtaaa atgaataatt ttgattagaa caaatatatt catggattta aaaaaatcta 240  
 aattgtaaaa ttcttaaagtg ccttatcata ttgcgagcc tgtgttcaac cataatattt 300  
 ttttatataa cacataaagt aaaacaaagt 330

<210> 1960  
 <211> 261  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (59)..(59)  
 <223> n = unknown

<400> 1960  
 tctcggtgga atcgatttct gtagtttctt tgcaaactga caatattaga gccaaatant 60  
 atttcttaga aacatcaaca gccacgtag tctgtgcaag attggtagtt ggtatatccg 120  
 taatgataat ctgaggttgt tgctggttta ccgattgttg ctggttttatc gattgttgct 180  
 ggtttagcaa ttgctgctgt tgccagagaa atttttgttc ctgaactttt tggatattgtc 240  
 gcaactgctg ttgatgtaag t 261

<210> 1961  
 <211> 131  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1961  
 cttttgcatg taggatccaa tggatcgca aatattccaa ctcttggaca aatgaatggt 60



tgctgccaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagactcc 120  
aaagacaatg t 131

<210> 1962  
<211> 261  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (28)..(29)  
<223> n = unknown

<400> 1962  
tctcggtgga atcgatttct gtagtttntt cgcaactga caatattaga gccaataaat 60  
atttcttaga aacatcaaca gccacgtag tctgtgcaag attggtagtt ggtatatccg 120  
taatgataat ctgaggttgt tgctggttta cggattgttg ctggtttatt gattgttgct 180  
ggtttagcaa ttgctgctgt tgccagagaa atttttgttc ctgaactttt tggattgtgc 240  
gcaactgctg ttgatgtaag t 261

<210> 1963  
<211> 486  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (29)..(29)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (59)..(59)  
<223> n = unknown

<400> 1963  
tgaaatgtga agacgacgtc aacgaatgnt ttgacccaaa atctttctcg tgcagaacng 60  
catgcaaaag tgaaaacggt ttttccgac gaagagattg taaaaaatat tatcaatggt 120  
tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
ataaaacgga gttgcatgac ataccacgac caccggcgga agaattgcaa agtgagattg 240  
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaagt 480

aaaaaa 486

<210> 1964

<211> 500

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (124)..(124)

<223> n = unknown

<220>

<221> misc\_feature

<222> (126)..(126)

<223> n = unknown

<220>

<221> misc\_feature

<222> (149)..(149)

<223> n = unknown

<400> 1964

tttttttttt ttttttttgg cccaaacgat ttatttttat taaaaagata catgtaattt 60

cataaagctt ctatatttat atatttttaa taatcagaaa ttactatagt taatgacatt 120

ttgntngtgc tccttacata aaatacaant ttatacatTT taatttttat acatattttt 180

tatatTTaat tgcacagatc atttgtgtat ttattatatt aattgactac tttatgataa 240

tttgaatcct aattagtcta ttcaagattg ttttcttgtt ttaagcctta cttagcaatc 300

tcacttttgc attcttcgcc ggggtggcgtg ggtatgcac gcaactccgt tttatcaaag 360

tgcaagccat ttggacaatc ataatgtttt atttgccatt tgttgTTaac caagaaacat 420

tgataaatatt ttttacaatc tcttcgatcg gaaaaaacgt tttcactttt gcatgcagtt 480

ctgccccgaga aagatttggg 500

<210> 1965

<211> 167

<212> DNA

<213> Ctenocephalides felis

<400> 1965

aatgcaatag atagtTTttg tcaattgatt taatcgctta ggagcgcact gatactcaca 60

gaatcctcta tatccacttg gctcaatctc atttaactgt caccaatttt aaatcaaatc 120

agcaacattc attggcatct catcgatgtg tgtattgtag aattgct 167

<210> 1966  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1966  
 gaggagactt tgtttaccgt aatggacaac cattcgaaat tccaaaagga aatttactat 60  
 tgaatgatta aatgtaatag attaatacaa ttttagatga ttaaaattgt tctattacta 120  
 caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaattgtat 180  
 agattttgaa taataacata gaaattatac tatttttttg atgactctaa taaaaaaaaat 240  
 gtataaatgg ccatgcctga tatatttttg ataaccttaa tgaaaaaatg tttaaatggc 300  
 catgtctgaa aagattttcta tgtgtatttt tttgttaaca ttttattggt gaatggataa 360  
 aagataaata caattttata agctgtttgg ataaattaat tttgaataaa tccataatca 420  
 tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaaatg tatacgaaat 480  
 ataacttata tgatatat 498

<210> 1967  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(34)  
 <223> n = unknown

<400> 1967  
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 ggatatgaca caataccagc aacagttgtg acggcttgtg caatggccca gctgataact 120  
 aatgggggtgt tcttggggtc tggcaacatt ccgcgagcgg tgtcatagaa tccaaagtat 180  
 gctgcacggg agatgatgat accttgaaca gatactcaa aaccacggta caatccaggg 240  
 agaccatcag gcttgaagat tttggtcaag cagttgccca atccagagaa ttcacgttga 300  
 ccagcgcctt tacctacatc agcggccaat ctggtacggg cgaaatcaag tgggtagacg 360  
 aagcacaatg atgtggctcc agcagcacca ccagatgcca agtttcctgc gaagtaacgc 420  
 cagaattggg tcttcttgtc aactccaccc aagaaaactt gcttgtactt gtctttgaat 480  
 gcgaagttca agcctga 498

<210> 1968  
 <211> 498  
 <212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (26)..(26)

<223> n = unknown

<400> 1968

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agaaatatga taatatgttc aaaatnaaaa tgataaaaat aaatgagtgg attatcaaaa      60
caggatatta aacataatag aaatTTTTTT tgaaagtatt ggaaatTTTT taagaaaagg      120
ttaatgacaa agttgaatta attacctgta tgtttgaata tttgttagca cttttgcact      180
aaacaagctt ttttaacaaa atgatttttg tgagttaatt ttccgccgaa taattagatt      240
ttgtaaatac aaaattacta aaaaatttTgt ctttttttaa attattatTT gaaaacacga      300
ataatattgt tctctggatg ttgttcgatt ggttttcgaa aattaactaa atgaaactgg      360
tgtgcccttt gtaacacgtg taaacacttg aacgagagat gtgagattgt atgtgtgtgt      420
ttttatatgt caggggtgtga atacttaaat tgttgatctt aaaaggaagt cgatattaat      480
tgttgtcaaa aagtgtaa                                     498

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<210> 1969

<211> 442

<212> DNA

<213> Ctenocephalides felis

<400> 1969

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cggaagtgtg agctggcaca ttgacttaa ctttagtttt atcttcatac tcaattatat      60
tttcttttac catttctcca gcagaagggtg tcacattctg tgtttctaaa tttgtatTTT      120
gataatcatc actaaatcta tttcgggatc gagaccgca tctgcttctt ctacctctta      180
attctttcct tgtaacaaac tccaaaaatc cttcagaatc tggcatcaca acaggttctt      240
caggttgtga atccgcttct tgcacgcata attggaaaat tggttgtgtt ttgggtgttc      300
cagctgaatg tttttcaaaa atattcgatt ccgtgatttg tggcacttga gaaggcaatt      360
cgctattagc tttgatacca acaatagacg cccatgatgt cagttttggg tgttcagtag      420
actcacatag cggttgttca gt                                     442

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<210> 1970

<211> 463

<212> DNA

<213> Ctenocephalides felis

<400> 1970

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gaaagctact agagaggtgt catttccacc agtgggatcg agaaataatc gcacaattag      60

```

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ctgtgttcgt gccctggacc aatatgtaaa tggccaagga ggctatgcca ctcttgtcaa 120
tgggtggagtt ggctggaaaa atgtaacttt actcctatct tctcagactg gcaaaggatt 180
taactttctta gttgaaatTT ggggatatta gattagaaat ataatgaaaa tgtgaatata 240
gaaaaaaaaat taaatataca atagtatttt aaatttggca cacatctatc tatgcatcca 300
taaataaagg ttatatacag cattcattta taattgttta agaattataa tgattttatg 360
aagtttagta tatgttcacc aatgtaacac caatggcagt gttataatct gtgatataa 420
tatgaggtaa attatattcc gaaaaatgat gaacctagaa cta 463
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<210> 1971
<211> 291
<212> DNA
<213> Ctenocephalides felis
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<220>
<221> misc_feature
<222> (262)..(262)
<223> n = unknown
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aagtcgtaaa agactgtgct gactgcttaa aacttactga caactaaatt agtttaggaa 60
ttttataaca aactgtaatt tgcttaaatt tgctttatga tcagctagtt gtatattatt 120
tgtaatttga tgggttttagt tttttatgta acattttgac aaataaaaaa tgtttatgaa 180
aataaaaaaa aaaaaaaaaa aaaaaattta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa anttaaaaaa aaaaaaaaaa aaaaaaaaaa a 291
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<210> 1972
<211> 269
<212> DNA
<213> Ctenocephalides felis
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<220>
<221> misc_feature
<222> (34)..(34)
<223> n = unknown
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<220>
<221> misc_feature
<222> (64)..(64)
<223> n = unknown
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<400> 1972
agatctacta atgcccgtt taccactgtc acanttattc cgcaaaccag caaccacaaa 60
tatnaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg 120
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catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct 180  
 attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt 240  
 tcttccattg tgtctttaca ctcggtcgt 269

<210> 1973  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (28)..(28)  
 <223> n = unknown

<400> 1973  
 atatatctta catcgaatct aataacanta aagagttatt aattttcatg tcgatgtttt 60  
 agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag 120  
 tataattgca tttcacaaca cacgacggaa atatgggttat ggtccatatg aagcaatgct 180  
 cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
 tgctatcaga gatgttctctg atattaaaaa tgttaaactg caattataat ctagaattat 300  
 tcctacaaca ttgctttcaa caacacttcc taatcgaccc atcattaaag atatacatatc 360  
 tgccattgcc ctgagttgtg tagggt 386

<210> 1974  
 <211> 494  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (27)..(27)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (140)..(140)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (216)..(216)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (255)..(255)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (336)..(336)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (341)..(341)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (384)..(384)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (406)..(406)  
 <223> n = unknown

<400> 1974  
 tttttttttt tttttttttt tttttcnaac ggcccaaacg atttattttt attaaaaaga 60  
 tacatgtaat ttcataaagc ttctatattt atatatttta aataatcaga aattactata 120  
 gttaatgaca ttttgtttgn gctccttaca taaaatacaa ttttatacat ttttaattttt 180  
 atacatattt tttatattta attgcacaga tcattnggggt atttattata ttaattgact 240  
 actttatgat aatngaate ctaattagtc tattcaagat tgttttcctg gtttaagcct 300  
 tacttagcaa tctcactttt gcattcttcg ccgggnggcg ngggtatgca tcgcaactcc 360  
 gttttatcaa agtgcaagcc attnggacaa tcataatgtt ttattngcca tttgttgtca 420  
 accaagaaac attgataata ttttttacia tctcttcgat cggaaaaaac gttttcactt 480  
 ttgcatgcag ttct 494

<210> 1975  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (56)..(56)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (135)..(135)  
 <223> n = unknown

<220>  
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<222> (211)..(211)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (216)..(216)  
<223> n = unknown

<220>  
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<222> (227)..(227)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (230)..(230)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (285)..(285)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (291)..(291)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (301)..(301)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (330)..(330)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (336)..(336)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (351)..(351)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (360)..(360)  
<223> n = unknown

<220>  
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<220>



<221> misc\_feature  
 <222> (406)..(406)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (427)..(427)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (436)..(436)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (451)..(451)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (491)..(491)  
 <223> n = unknown

<400> 1975  
 tttttttttt tttttttttt ttttcttgac aattttactt gtatttatct taaacntatt 60  
 tacagtattt cttcaaaaac tgtcaaatac aataagttaa cttaaataca tggatgttct 120  
 gagaatgtgg atganctcaa gattgtagaa ctgagtttga tctacacaat ttttgcctaa 180  
 aaggttcgct actcagaaag cagccaccgc ngattncata cgcctngcn tttgagaata 240  
 aaatatatgt ataatgttaa ataggatttt aatgggaaaa agccnattta ntacttttagc 300  
 nttatgaata tgcatttcca aattattctn taacgnattt aacctaaaat ncaagaaatn 360  
 catattcata aatatacata tattttaata caaaaaggtn acttgngcaa aaatgaaatt 420  
 caaatcnctt ggcttngcta atttaaattg nttttagatt tttctctttt tttgggatgg 480  
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<210> 1976  
 <211> 498  
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<220>  
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<400> 1976  
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aactcatggc aaaagcatgg tgttttgagg cttcagaacg cctagaggca aattttaa	180
atgtagtaag cggtaagcat ttagatttat ataccaaatt agctacaata ggcaaaaatt	240
catgcgctgc caatggagtt ccgcaaaata atccattaaa tttgtaataa atattaagta	300
tgtgtaacta agcttaagtt catttaattt attttattga taaatacttt aatttaacag	360
aatgtaaata tttcatttta tgtaaataat taggggggtat ttgttatcaa gatcgtgcgc	420
caaataagcc ttgtcataca gattattttc aattttgata ataaggtaat acaatgcgcc	480
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<210> 1977  
 <211> 481  
 <212> DNA  
 <213> Ctenocephalides felis

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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg	180
ataaaacgga gtcgcatgc ataccacgc caccggcga agaatgcaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt	420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgactcc	480
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<210> 1978  
 <211> 251  
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<400> 1978	
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aaaagttacc ggaaacgcta actgaagctc acgtattcgg cagggatcag gtgttctgga	120
gcttaccgaa aaaagggtgta tcaaagtcta cagatacggc cgtcaagaaa ttatcacaag	180
aagactgtta aatagttata atttgtattg ttatacatat gtttcttata taataaaatt	240
atattttattg t	251

<210> 1979  
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 <212> DNA  
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<400> 1979	
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ccctttcctc ttctctgaaa taaacccaat tatgtagacc tggtacttca caatttttta	180
attcagctaa gaaaacatgc tcaaatgctg aactaccgat ttgtccacct cctctggagt	240
ataaattaaa ccaaatcggt ttcaataaat ccttatgagt ttggggatct ctagtcacaa	300
ttcccttttc aataaaaaaa ttcataagat gtcgcatcag gctggtggat aacattgcat	360
ctaaciaaagc attttcttca tttctttctt gtgcagttac atgttcattt actgcagtat	420
ctaattcata attattaaat aatgggtttca tagcgctata gtttaatatc aaaaggctga	480
ctgattcaca acaggcaa	498

<210> 1980  
 <211> 412  
 <212> DNA  
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<400> 1980	
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tgttctagaa atacaaagtg taaagttcaa ggtttgtata gcttaataaa gtaaacattt	120
taaaatgtaa tgaattttatc tgcaaatagt caaaatcaaa attactatat aatgattatt	180
gaaataatgc ttttatagat tgcatttcaa tctgtattaa attgtatgta aatcacagca	240
caagatctaa cacacaattc atctaacaga aagaacaaaa taattttaat gttattaaaa	300
attacatata aaataacttt tacaataaag taaccttaca tgagatgtgt tgatttcaga	360
tacttttcat acaacagtgc tttctgtata aacaatataa tataaataac gg	412

<210> 1981  
 <211> 269  
 <212> DNA

<213> Ctenocephalides felis

<400> 1981

aagtataatt gcatttcaca acacacgacg gaaatatggt tatgggccat atgaagcagt 60

gctcgttctt ctatccactt gcttctgata aatgttcggt ataaagaatg caatcactcc 120

acatgctatc agagatgttc ctgatattaa aaatgttaaa tcgcaattat aatctagaat 180

tattcctaca acattgcttc caacaacact tcctaatcga cccatcatta aagatatata 240

tactgccatt gccctgagtt gtgtagggt 269

<210> 1982

<211> 500

<212> DNA

<213> Ctenocephalides felis

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<222> (55)..(55)

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<223> n = unknown

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 tatacatttt aatttttata catatttttt atattttaatt gcacanatca ttngngtntt 180  
 tattatatta atggactact ttatgataat tggaatccta attagtctat tcaagattgt 240  
 tttcctgggt taagccttac ttagcaatct cacttttgca ttcttcgccg ggnggcgtgg 300  
 gtatgcatcg caactccgtt ttatcaaagn gcaagccatt nggacaatca taatgtttta 360  
 tttgccattt gttgttaacc aagaaacatt gataatattt tttacaatct cttcgatcgg 420  
 aaaaaacgtt ttcacttttg catgcagttc tgcacganaa agattttggg tcaagccatt 480  
 cgggtggccgt cgtctttaca 500

<210> 1983  
 <211> 386  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 1983  
 atatatctta catcgaatct aataacaata aagagttatt aattttcatg tcgatgtttt 60  
 agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag 120  
 tataattgca tttcacaaca cacgacggaa atatgggttat ggtccatatg aagcaatgct 180  
 cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
 tgctatcaga gatgttcctg atattaaaaa tgttaaatacg caattataat ctagaattat 300  
 tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatac 360  
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<210> 1984  
 <211> 270

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(2)

&lt;223&gt; n = unknown

&lt;400&gt; 1984

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atataaatat gatgctattg ttaaatgttc aataaatgca caaattattc cacaaatccc      120
gcatgagacc atcacgaata caagaattgg aagctttccc acagagttaa taatagcacc      180
tattatggga aatccaatcg catatccagc ttccaacatt aaagaatgca taaatgcctg      240
ttcttccatt gtgtctttac actcggtcgt      270

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&lt;210&gt; 1985

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 1985

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atatatctta catcgaatct aataacaata aagagttatt aattttcatg tcgatgtttt      60
agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag      120
tataattgca tttcacaaca cacgacggaa atatgggttat ggtccatatg aagcaatgct      180
cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcactccaca      240
tgctatcaga gatgttcctg atattaaaaa tgttaaatcg caattataat ctagaattat      300
tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatat      360
tgccattgcc ctgagttgtg taggggt      386

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&lt;210&gt; 1986

&lt;211&gt; 349

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (55)..(55)

&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (66)..(66)

&lt;223&gt; n = unknown

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 taataacaat aaagagttat taattttcat gtcgatgttt tanaaaatga ttcagtagca 180  
 ncttctgaat tttntttgta attgataatn ctttctcaaa gtataattgc ntttcacaac 240  
 acacgacgga aatatgggta tggncatat gaagcaatgc tcgttcttct atccacttgc 300  
 ttctgataaa tgttcggtat aaagaatgca atcactccac atgctatca 349

<210> 1987  
 <211> 487  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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<222> (74)..(74)  
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 ntaataacaa taaagagtta ttanttttca tgtcgangtt ttanaaaatg attcagtanc 180  
 ancttctgaa ttttctttgn nattgataat nctttctcaa agtntaattg cntttcaciaa 240

cacacgacgg aaatatgggt ntgggtccata tgaagcaatg ctcggttcttc tatccaattg 300  
 cttctgataa atgttcggna taaagaatgc aatcactcca catgctatca nagatgttcc 360  
 tgggtattaaa aatgttaaata cgcaattata atntagaatt attcctacaa cattgcttnc 420  
 aacaacactt cctaatcgac ccatcattaa agatatcata ctgccattgc cctgagttgt 480  
 gtagggt 487

<210> 1988  
 <211> 379  
 <212> DNA  
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 ttcgggtgaa ctgcacgaat tcacgcaact aaattttact tttttacatt tttgctcggg 180  
 tttcgggtaca ggtgtagggt caggagtagg tactactcct ggtgcgggct catccaatga 240  
 tgcaaatact tctttattta ctgttaaagg cgttccgtcg acattaaact caccatcata 300  
 agcggtaacg acagataacg ccacaaaact aataaaaacc aatgtgatat aaaacattct 360  
 aataaatatg ttaccacgc 379

<210> 1989  
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<220>  
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<210> 1990  
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<210> 1991  
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 <212> DNA  
 <213> Ctenocephalides felis

<400> 1991  
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<210> 1992  
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<220>  
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caattttata cattttaatt ttatacata tttttatat ttaattgcac anatcatttg	180
ngtattttatt atattaattg actactttat gataatttga atcctaatta gtctattcaa	240
gattgttttc ctggtttaag ccttacttag caatctcact tttgcattct tcgccgggtg	300
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gtttttatttg ccatttggtg ttaaccaaga aacattgata atatttttta caatctcttc	420
gatcggaaaa aacgttttca cttttgcatg cagttctgca cganaaanaa tttgggtcaa	480
accattcgtg gacgcgtctt	500

<210> 1993

<211> 498

<212> DNA

<213> Ctenocephalides felis

<400> 1993

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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcacttg	180
ataaaacgga gttgcgatgc ataccacgc caccggcgga agaattgcaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaatg tataaaattg tttttatgt aaggagcaca aacaaaatgt	420
cattaactat agtaatttct gattatttta aatatataaa tatagaagct ttatgaaatt	480
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<210> 1994

<211> 245

<212> DNA

<213> Ctenocephalides felis

<400> 1994

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cctatactat tttcgtcaca ataataatag ctttgacaat catttatatt tggataaaat	180
ctcgatggtg acggacattt gaaaccttgt actttgcaga ctgtactttc tttagtgggtg	240

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245

<210> 1995  
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 <212> DNA  
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 atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat 180  
 cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt 240  
 cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca 300  
 gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt 360  
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<210> 1996  
 <211> 482  
 <212> DNA  
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<220>  
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 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgac ataccacgc caccggcgga agaatgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
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<210> 1997  
 <211> 482  
 <212> DNA  
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 ataaaacgga gttgcgatgc ataccacgc caccggcgga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tttttatgt aaggagcaca aacaaaatgt 420  
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<210> 1998  
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 aaaatctaaa ttgtaaaatt cttaaagtc ttatcatatt tgcgagcctg tgttcaacca 180  
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<210> 1999  
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 <213> Ctenocephalides felis

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 acacatattt ttagaatgat catatacata gttagggtggg cattcgaaaa cctgaccttt 180

accatctttg cagaataagt atcttgtgca gtctttcgga tctggctgat atcctacaac 240  
cgcgcatgta gtttctgccg tcttacagtt ttccccaggt tttgatgagc acatatcatc 300  
tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attggtgtaa ttgggggtttc 360  
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agt 423

<210> 2000  
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 acagnattat tatctatntc aagtttnctt ctggtcatta tgctgaattg caagaacctt 180  
 nttnatgctg cgtgcaccaa caacgcgcn tgcaatgaag atattcctgt agccgaagan 240  
 ttntttctcag tgatggt 257

<210> 2001  
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 ttcttggtta acaacaaatg gcaaataaaa cattatgatt gtccaaatgg cttgcacttt 180  
 gataaaacgg agttgcgatg catacccacg ccacccggcg aagaatgcaa aagtgaatt 240  
 gctaagtaag gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcaaattat 300  
 cataaagtag tcaattaata taataaatac acaaatgatc tgtgcaatta aatataaaaa 360



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atatgtataa aaattaaaat gtataaaatt gtattttatg taaggagcac aaacaaaatg 420  
tcattaacta tagtaanttc tgattattta aaatatatta atatagaagc tttatgaaat 480  
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<210> 2002  
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ggttcatcaa gctgataact ttcttataaa ccaaactctac agagtcgatt cccacaaaat 180  
agtccaaatg attgaatttg ccatctggt 209

<210> 2004  
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<400> 2004  
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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180

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ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaaa agtgagattg	240
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc	300
ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa	360
tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt	420
cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt	480
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ttcggatctg gctgatatcc tacaaccgcg catgtagttt ctgccgtctt acagttttcc	180
ccagggttttg atgagcacat atcatctaca caaatggag catcggaatt tgagtctctg	240
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tgacaaaatg ttccaactg cttattagt	329

<210> 2006  
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<400> 2006	
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ttaccgcaat tgaaaaaagc gcgctcagag aacgttccac tttcgattga aacttgatcat	180
cattacttaa cctttgctgc tgaagatggt ccagatggac atactgaata caaatgcgct	240
ccaccaatta gagaagaaag taatcaagaa aaattatggc aagctttgga aaacagagat	300
attgatatgg tagtcagtga tcattctcca tcacctgctg cactgaaagg cctgtgcaat	360
ggttgatcat ctgatttctt aaaagcttgg ggtggaattg ctggtatgca gtttggatta	420

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tctttattat ggaccggtgc ttctaaaaga ggctttaaag ctcatgatgt atctcgttta 480  
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 tataattgca tttcacaaca caccgacggaa atatgggttat ggtccatatg aagcaatgct 180  
 cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
 tgctatcaga gatgttcttg atattaaaaa tgttaaactg caattataat ctagaattat 300  
 tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatatc 360  
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<210> 2008  
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 acacatattt ttagaatgat catatacata gttaggtggg cattcgaaaa cctgaccttt 180  
 accatctttg cagaataagt atcttgtgca gtcttttcgga tctggctgat atcctacaac 240  
 cgcgcatgta gtttctgccg tcttacagtt ttccccaggt tttgatgagc acatatcatc 300  
 tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attgttgtaa ttgggggtttc 360  
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acacatattt ttagaatgat catatacata gttaggtggg cattcgaaaa cctgaccttt 180  
accatctttg cagaataagt atcttgtgca gtctttcgga tctggctgat atcctacaac 240  
cgcgcatgta gtttctgccg tcttacagtt ttccccaggt tttgatgagc acatatcatc 300  
tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attgttgtaa ttgggggtttc 360  
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<210> 2011  
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 acagnattat tatctatntc aagtttntct ctggtcatta tgctgaattg caagaacctt 180  
 nttnatgctg cgtgcaccaa caacgcgcen tgcaatgaag atattcctgt agccgaagan 240  
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<210> 2012  
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<212> DNA  
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 ttcttggtta acaacaaatg gcaataaaaa cattatgatt gtccaaatgg cttgcacttt 180  
 gataaaacgg agttgcatg cataccacg ccaccggcg aagaatgcaa aagtgagatt 240  
 gctaagtaag gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcaaattat 300  
 cataaagtag tcaattaata taataaatac acaaatgatc tgtgcaatta aatataaaaa 360  
 atatgtataa aaattaaaat gtataaaatt gtattttatg taaggagcac aaacaaaatg 420  
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<210> 2013  
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<210> 2014  
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 catctaagat tgatgatacg gggaattcac tttctgggtt accagtatta attctataca 180  
 ttttggcaat aatttgacga gcttcttcnn ttcttcctg attcatcaaa antttgggac 240  
 tttctgggtan tttccacaaa gcaaaacaac aaagcngnga tggcaaacna catgcaacca 300  
 tataacaacct ccagggcttg tatgtatata ccaaaaagtc aatatagaat gaccatttnt 360  
 gatttataat taaccatgca accgtcggta atgcaagaca cgcaaatccg aagatgcttg 420  
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<210> 2015  
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 ataaaacgga gttgcgatgc ataccacgc caccggcga agaatgcaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaatata caaatgatct gtgcaattaa atataaaaaa 360  
 tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt 420  
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<210> 2016  
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 tatttagttt tgtttaatta attaattact cagccttgct tattattatc gatttcgata 180  
 cggaaagcca aatcctgcat cgagtcgtgc tttagaaggg acttcttttc gggatcttta 240  
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 atcatcctta aaatagttta ttgatccgat gaatctaagg gggccacaga aatatcacga 360  
 acggctctga atttaccaca attattcaaa tgttcgtttt ccaaaccgaa gaaattccat 420  
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<210> 2017  
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 aatgacattt tgtttgtgct cttacataa aatacantt tatacatttt aatttttata 180  
 catatttttt atatttaatt gcacagatca tttgtgtatt tattatatta attgactact 240  
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 ttagcaatct cacttttgca ttcttcgccg ggtggcgtgg gtatgcacgc caactccggt 360  
 ttatcaaagt gcaagccatt tggacaatca taatgnttta tttgccattt gntgntaacc 420  
 aagaaacatt ggtnatantt ttacaatct ctttgatcgg gaaaaacgct ttacttttgg 480  
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<210> 2018  
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 gctccttaca taaaatacan ttttatacat ttttaattttt atacatattt tttatatatta 180  
 atngcacana ncatttgtgt atttattata ttaattgact actttatgat aatttgaatc 240  
 ctaattagtc tattcaagat tgttttcctg gnttaagcct tacttagcaa tctcactttt 300  
 gcattcttcg ccgggtggcg tgggtatgca tcgcaactcc gttttatcaa agtgcaagcc 360  
 atttggacaa tnataangnt ttatttgcen tttgttgnta accaaaaaac antgntaata 420  
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<210> 2019  
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tggtgatat cctacaaccg cgcatgtagt ttctgccgtc ttacagtttt ccccagggttt	180
tgatgagcac atatcatcta cacaaaatgg agcatcggaa tttgagtctc tgcaattgat	240
tgttgtaatt ggggtttctt gtccagcgca caacttcaaa gtagaacaat cgtgacaaaa	300
tgttcccaac tgcttattag t	321

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atnatccgtt acgtcataat tgcggaccta tggctctggg cacaaaatgc tatacagtta	180
catgtcctgc acagcctaag gtgcttncgt acattggtga taaatcattg t	231

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 aaaaaaaaaa aaaaaaaaaa aaaaaa 145

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 gctgatatcc tacaaccgcg catgtagttt ctgccgtctt acagttttcc ccagggttttg 180  
 atgagcacat atcatctaca caaaatggag catcggaatt tgagtctctg caattgattg 240  
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<210> 2023  
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atcctcgagt aatgacacct ttttcaattt ttgaatagca gtcgtccttt ggattcatac      180
aaactttggg cttcgtcttt cctgcatctt tgaaacattc gtttcttagt tctggaagtt      240
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tcgatgatgt aatgctacga ttttcggatg aagacagtcc tctagtggcg ttggcttcac      180
cagtaaaaca agaaaaagat gttaaaccac aagagactgt tgcaaaaaaa aaaanaaaaa      240
aaaaaaaaa                                                                249
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<210> 2025

<211> 321

<212> DNA

<213> Ctenocephalides felis

<400> 2025

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FC-8-C3.ST25.txt

tggtgatat cctacaaccg cgcatttagt ttctgcgcgc ttacagtttt cccaggttt	180
tgatgagcac atatcatcta cacaaaatgg agcatcgga tttgagtctc tgcaattgat	240
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tgttcccaac tgcttattag t	321

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aaaaaaaaaa aaaaaaaaaa aaaaa	145

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ctgatatcct acaaccgcgc atgtagtttc tgccgtctta cagttttccc caggttttga	180
tgagcacata tcatctacac aaaatggagc atcggaattt gagtctctgc aattgattgt	240
tgtaatggg gtttcttgtc cagcgcacaa cttcaaagta gaacaatcgt gacaaaatgt	300
tcccaactgc ttattagt	318

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ttnttacatt nnantnttta tacatatattt ttatatatta ttgcacanat cttttgngta      180
tttattatat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt      240
gttttcctgg tttaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggcgt      300
gggtatgcat cgcaactccg ttttatnaaa gtgcaagcca ttggacaat cataatgttt      360
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 ttatacattt taatttttat acatattttt tatattnaat ngcacagatc atttgtgtnt 180  
 ttatttatatt aatngactac tttatgataa ttngaaccc t aattagtcta ttnaagattg 240  
 ttttcttggt ttaagcctta cttagcaatc tcacttttgc attcttcgcc ggggtggcgtg 300  
 ggtatgcac gcaactccgt tttatcaaag tgcaagccat tnggacaatc ataattgtttt 360  
 attngccatt tgttggttaac caagaaacat tgataatatt ttttacaatc tttttcgatc 420  
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<210> 2030  
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 gaccaaagtt tgtatgaatc caaaggacga ctgctattca aaaattgaaa aaggtgtcat 180  
 tactcgagga tgcaaatcan atcagggtaa cgattgtaat gcaaactctg attcatgtaa 240  
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<210> 2031  
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 tataattgca tttcacaaca cacgacggaa atatgggttat ggtccatatg aagcaatgct 180  
 cgttcttcta tccacttgct tctgataaat gttcgggtata aagaatgcaa tcaactccaca 240  
 tgctatcaga gatgttctctg atattaaaaa tgttaaatcg caattataat ctagaattat 300  
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<210> 2032  
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<212> DNA  
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 ctctgtttag atttgggaaa atgttcttca gacantttga ataaatggga atccagattg 180  
 gaagaaatta atgatgttgt ggaaaattgc atcgtgtgaa attgtaactt gaaataattt 240  
 ttcttaacta ttanttttat agatgaacaa atacataatc taataaacca gcangtgaaa 300  
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<210> 2033  
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 tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg 180  
 ataaaacgga gttgcatgac ataccacgc caccgcgcga agaatgcaaa agtgagattg 240  
 ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc 300  
 ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa 360  
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 aaggacttgg ccaaggcttt caaagaaacc tgggtccaat tgggcaactt ggttcgtgan 180  
 gtcggcaaat gcgcaagagg agccgtgaag gaattcagag ataacttggg 230

<210> 2035  
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 <212> DNA  
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<400> 2035  
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gggctttgga gaggaatttt atgacagaat agttttacat ggcgatagag tatccatgat 180
cgacggagac accgatcgct ccaccacctt cgacgccctt cgggcacgca gtgcagcaat 240
cgctctagcc ctaaggggctc gtggagtgac caacaaagac gtcataactt tggtagaact 300
caccacagaa gactcttttg ccattgtttt ggggataatt ttctcaggag ccactttagg 360
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 caattttgta tatacnccag gatatccagg tcgcgcgcat cctcncctcc agnatataac 180  
 tcctactagg aacctgtttt tcatctacaa gngggccacc gctntcccca tgacaagtat 240  
 ntttttgtcc ttgaggaaaa ccagcgcaca tnatactgnc agaaatgatg tcaactgttaa 300  
 tagcatgact gttcttgcag tcttgacttg agtaagcttt aactttaact tcttgaaact 360  
 ttggcnaaat tggcccc 377

<210> 2037  
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 <212> DNA  
 <213> Ctenocephalides felis

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 atcgttggat tcttactgct gctacttgcg tgttaaataa atatccaaat gatattcttc 120  
 tcgtcgttgg aaccaacact ttgaatgctg gcggagtagg atacaaagtt gcccaaataa 180



FC-8-C3.ST25.txt

tcgttcataa ccaatttaac cagaacacat accacaataa catcgctttg ctaaaaaacta	240
catcaaatat tgtatacaca aactatgtca aaccagttgg tctggcaagc tatgatacac	300
caattggagc agtatccact ctggetggat ggggctactt atctaattgt ggccaaattc	360
ccaactactt gcaaatcgtt gacacgt	387

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tgctacttgc ntgttaaata aatatccaaa tgatattctt ctcgtcgttg gaaccaacac	120
tttgaatgct ggcnagatan gatacaaagt tgcccaaata atcnttcata accaatttaa	180
cccanaacac ataccacaan taacatcgct ttgctaaaaa ctacatcaaa tattgtatac	240

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 tgccgtctta gataagatgg tagatgacat ctctgctgaa tatgagaaca gcattgcaag 180  
 aattagccaa gatagcaaaa ttgatatgat tgccgctgaa ttcgaaaaac aaggatttgc 240  
 ccctgaagtc gatagagatt tggagagggt caacaaagaa gttgaaagga aacttagcaa 300  
 aaaagtgagt gaagccgcaa aggaatgcct taaaggccaa caccaaaaag ctctaggcta 360  
 cgcaacaaga gcccgctgcta aggtcaaggc ttgcagagat gacaaacgtg atgaattcaa 420  
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<210> 2040  
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 tgccgtctta gataagatgg tagatgacat ctctgctgaa tatgagaaca gcattgcaag 180  
 aattagccaa gatagcaaaa ttgatatgat tgccgctgaa ttcgaaaaac aaggatttgc 240  
 ccctgaagtc gatagagatt tggagagggt caacaaagaa gttgaaagga aacttagcaa 300  
 aaaagtgagt gaagccgcaa aggaatgcct taaaggccaa caccaaaaag ctctaggcta 360  
 cgcaacaaga gcccgctgcta aggtcaaggc ttgcagagat gacaaacgtg atgaattcaa 420

ccaagttcgc caaaatggct tggccgcctg gagagaagcc agggagaacg cccgaagccc 480  
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<210> 2041  
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 <212> DNA  
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 tgccgtctta gataagatgg tagatgacat ctctgctgaa tatgagaaca gcattgcaag 180  
 aattagccaa gatagcaaaa ttgatatgat tgccgctgaa ttcgaaaaac aaggatttgc 240  
 ccctgaagtc gatagagatt tggagagggt caacaaagaa gttgaaagga aacttagcaa 300  
 aaaagtgagt gaagccgcaa aggaatgcct taaaggccaa caccaaaaag ctctaggcta 360  
 cgcaacaagaa gcccgtgcta aggtcaaggc ttgcagagat gacaaacgtg atgaattcaa 420  
 ccaagttcgc caaaatggct tggccgcctg gagagaagcc agggagaacg cccgaaaccc 480  
 tcagagcaca agccaagggg 500

<210> 2042  
 <211> 420  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (12)..(12)  
 <223> n = unknown

<220>  
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 <222> (322)..(322)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (329)..(329)  
 <223> n = unknown

<220>

<221> misc\_feature  
 <222> (350)..(350)  
 <223> n = unknown

<220>  
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 <222> (382)..(382)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (409)..(409)  
 <223> n = unknown

<400> 2042  
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 tagcgagaga tgaacaaata aaaacatctg ataataaagc acaatttata aataaaaagca 180  
 aatctaataa gccctcccaa ttctccactt caccaacagt ttctaagaaa cttgatatag 240  
 aagatttata agtgatgcct aattcccaac aaaattctga taatttaatg ttgagcccca 300  
 aatcatcaag caatgagcag cngtttatnt ttttaaggcct gtataaagtn acaggaagtt 360  
 tccccaattg gacatagctg cnttatctaa aagttacctt tggccgagna gttgaatatt 420

<210> 2043  
 <211> 199  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2043  
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 agcacatctc cctatcaata ggaatcgaat ttttttttga accattcaaa ttggttgatc 180  
 cgtgcgtccg aaaacgtgt 199

<210> 2044  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (449)..(449)  
 <223> n = unknown

<220>  
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 <222> (452)..(452)

&lt;223&gt; n = unknown

&lt;400&gt; 2044

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aaattaaata ctacaaaata tgcataattg tatgaacctt ctacaagaac caagaaactt      120
atacactttt atacaaaaat ttggaaattt tactcaaaaa ctaagaaaaa tgtcctaagt      180
ggaagaaact tttacttatg aaattatata taaacctcaa cacacttctg ttgttggttt      240
taagattttt aaaaaaatat ttttattggt ttggaacaaa aattaaatac tacaaaatat      300
gcataatttc atcaactttc tataagaacc aagtaactta tacaccttta tacaaaattt      360
tggaattttt attcaaaaac caaaaaaaat gtcctttaac aaactttttac ttatgaaatt      420
atatataaaa ctcaacctac tactattgnt gntttcaaga ttttttttaa aaatctctta      480
ttgattttga accaaaat                                     498

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&lt;210&gt; 2045

&lt;211&gt; 534

&lt;212&gt; DNA

<213> *Ctenocephalides felis*

&lt;400&gt; 2045

```

gctggaatga atgattgaat gaaatattaa ctgtcttaat aaaattgtta tagaatttaa      60
tttttatggt aaaaagcgta aatattatta aaggacgaga agacccttta aagttttata      120
tataaatata gattaatttt aagaatatta ttaaatttat ttatattaat atattttatt      180
ggggtgatag gaaaatttat aaaacttttt ttttattaaa acataaataa ttgaataatt      240
gatccataaa ttatgattaa aagattaagt tacttaaggg ataacagcgt aattattttt      300
aagagaacat atcgacaaaa tagattgcga cctcgatggt ggattaagat aattttaaaa      360
tgcagaagtt ttaaaatttg gtctgttcga ccattaattc ttacatgatc tgagttcaaa      420
ccggttaagc caggtgggtc tatccttaat ttttaaaatt aattagtcga aaggccatta      480
attataataa ttatttaatt gaataaaata aaaaaaaaaa aaaaaaaaaa aaaa          534

```

&lt;210&gt; 2046

&lt;211&gt; 545

&lt;212&gt; DNA

<213> *Ctenocephalides felis*

&lt;400&gt; 2046

```

taatcaatag ttttttaatt gaaagctgga atgaatgatt gaatgaaata ttaactgtct      60
taataaaatt gttatagaat ttaattttta tgttaaaaag cgtaaataatt attaaaggac      120
gagaagaccc tttaaagttt tatatataaa tatagattaa ttttaagaat attattaaat      180

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## FC-8-C3.ST25.txt

ttattttatat taatataat	tattggggtg ataggaaaat	ttataaaaact ttttttttat	240
taaaacataa ataattgaat	aattgatcca taaattatga	ttaaaagatt aagttactta	300
agggataaca gcgtaattat	ttttaagaga acatatcgac	aaaatagatt gcgacctcga	360
tgttggatta agataat	ttttaaagaga agtttttaaaa	tttggctggt cgccattaat	420
tcttacatga tctgagttca	aaccgggttaa gccagggtggt	tctatcctta attttttaaa	480
attaattagt acgaaaggcc	ttaattataa taattattta	attgaataaa taaaaaaaaa	540
aaaaa			545

&lt;210&gt; 2047

&lt;211&gt; 469

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2047

agagagtctg tttggcacga	agttgcttaa agccttcagt	ggacgctgaa acaattaaaa	60
ttattctagt caaatattac	attggtagtt taaagcctcg	tgtgtgcttg aagacaaaaa	120
gtgcctttgt acaaaaacaa	acagtgatat ttaatttatg	aaatcgttat aaacgtgtgt	180
cgtatgatac ttggatattt	ataaaaaaaaaa gtgatacttg	ttagtcagtt taaaccctat	240
atgcacaaag ggatataata	agacatagtt aaaattattg	caaaaatggg tggaaagtaac	300
ggtacaatga tggcaatacg	tgttgttcgc agtaaaactga	ggaaacgcga agagcactct	360
aactctgttc atccagaggc	gccccagaca attacggcgg	ttgtaccacc tgctgagcca	420
gtggcgtaga ggcaacaacc	catctggtgt tcccgcgcga	cccgcgcga	469

&lt;210&gt; 2048

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2048

aaaaaatgat acctat	ttttt tgtataaaatt	ctcaaattatt gttagatttg	taatatttac	60	
aacaaaattc agttttt	taca tgctaaaaaa	caaggtaaca atttagaatt	cataaaatat	120	
aatgtaataa taat	ttttttt aaagtttatg	aagttttata aaaaattcaa	tcaagatttc	180	
tattctattt atacat	ctat ttttatatta	aaaacagata ctcaaactaa	ataatgtaaa	240	
actgaatgtc actttt	ctata actttt	gtta aaaataatta	gaacaaaact	tttatttcgg	300
ttactatttc attgtc	atat tatttttatat	aattattcat acaaaattat	ttgttgtaaa	360	
ttattttt	gtata atgaaaattg	tataaaactat ttaaaaacac	atcactaaat	aactatatat	420
atatgatata tagatt	ttata gatataatta	tctacacaaa tataaattta	gtaataaata	480	

aatttcatat attttatcca atgggttggt actgaaatgt aattaaataa ttatatattaa 540  
 ttatatata 549

<210> 2049  
 <211> 538  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2049  
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 attagtaatg aaatgttatt cgttttttaa gttatctagt ttttttagaa ataaatttaa 180  
 ttattatat ttaaataattt atattaattt attaaatata gatattttta atataaaaata 240  
 tttttaggga taagcttaaa aataaattat tataaattaa taaattattt ataaatttat 300  
 agggttataa atattcatta atataaaaat gttataattt atttataaat aaattaaaaat 360  
 ttagtagatt ttaaattttt tataaaaaata atatttataa ttataaaaaa tatgaaataa 420  
 tgattaaatt agtataatat aatttattga taatattaaa ttgtagggtta ttaaggatt 480  
 cggcaaatat aatattccct gttaacaaaa ctgcttttga aatatataaa gctaattct 538

<210> 2050  
 <211> 513  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2050  
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 aagaatatta ttaaatttat ttatattaat atattttatt ggggtgatag gaaaatttat 180  
 aaaacttttt tttattaaaa cataaataat tgaataattg atccataaat tatgattaaa 240  
 agattaagtt acttaaggga taacacgcta attattttta agagaacata tcgacaaaaat 300  
 agattgacgac ctcatgttg gattaagata attttaaaat gcagaagttt taaaatttgg 360  
 tctgttcgac cattaattct tacatgatct gagttcaaac cggtttaagc caggttgggt 420  
 tctatcctta atttttttaa attaattagt cgaaaggcca ttaatttata ataattattt 480  
 taatttgaat aaaattaaaa aaaaaaaaaa aaa 513

<210> 2051  
 <211> 289  
 <212> DNA

<213> Ctenocephalides felis

<400> 2051

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cctgggtccca attgggcaac ttagtccgtg aagtcggaaa atgcgcaagg ggagccttga      60
aagaatttag ggacaactta gtacaagtcc gtaaagactg tgccgactgc ttaaaactta      120
ctgataacta aattagttta agaattgtat aacaaactgt aaacttccta aaaatgtcta      180
gtgatataatt atttgtggtc taatggttct agcttatgta gctttttgac aaataaaaat      240
tgtttataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      289
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<210> 2052

<211> 459

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (5)..(5)

<223> n = unknown

<400> 2052

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actaatttag ttatcagtaa gttttaagca gtcggcacag tctttacgga cttgtactaa      120
gttggtcccta aattctttca aggtctccct tgcgcatttt ccgacttcac ggactaagtt      180
gcccaattgg gaccaggttt ctttgagtgc cttggccaag tcttttgctc cttcgtgggc      240
agcttggaga acccctttca agcaaactct ggcttcatcg acatcggctg cggtcacaac      300
gcattccttg gcttgtgctc tgagggttc gccgttctcc ctggcttctc tccaggcggc      360
caagccattt tggcgaactt ggttgaattc atcacgtttg tcatctctgc aagccttgac      420
ttagcacggc ttcttgtgcg tagcctagag ctttttgggt      459
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<210> 2053

<211> 546

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (33)..(34)

<223> n = unknown

<400> 2053

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tgttatagaa tttaattttt atgttaaaaa gcgtaaatat tattaagga cgagaagacc      120
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FC-8-C3.ST25.txt

ctttaaagtt ttatatataa atatagatta attttaagaa tattattaaa tttattttata	180
ttaatatatt ttattggggg gataggaaaa ttataaaaac ttttttttta ttaaaacata	240
aataattgaa taattgatcc ataaattatg attaaaagat taagttactt aagggataac	300
agcgtaatta tttttaagag aacatatcga caaaatagat tgcga'cctcg atgttggatt	360
aagataattt taaaatgcag aagtttttaa atttggctcg ttcgaccaat aattcttaca	420
tgatctgagt tcaaaccggg ttaagccagg tggttctatc cttaattttt taaaattaat	480
tagtcgaaag gccattaatt ataataatta ttttaatttg aataaaaataa aaaaaaaaaa	540
aaaaaa	546

<210> 2054  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2054 atcagattct ttcttggacc tgtaaatact ccgcataaat tacaaaatgt cttcatcagt	60
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tatcattttc agcgcaactgg gtgccgcata tggaacagcc aagtcaggca ctggtatcgc	180
cgctatgtcc gtgatgagac ctgaattgat catgaaatca atcattccag ttgttatggc	240
tggatcatt gctatctacg gcctgggtgt tgcgggtactg attgcgggtg ctctggagga	300
acaaaaaacc tactcacttt ataagggctt catacatctc ggcgctggtt tggccgtagg	360
attttccggc ttggcggcgg gttttgcgat tggaatcgtt ggtgatgctg gagtacgagg	420
aacagcccaa caacctcgtc tgttgaggaa tgatcttgat cctgatcttc gctgaagtat	480
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<210> 2055  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (496)..(496)  
 <223> n = unknown

<400> 2055 gttttattta atttattggt gccgcccgtg ttaaattaag taaacttttt caagatgatg	60
cccgcacttg cagacccagt ggcttttcgcc aaggatttcg ccgcagggtg tattttctgcc	120

FC-8-C3.ST25.txt

gcagtctcta agactgtggt agcaccatc gaacgtgtca aattgctcct gcaagtacaa	180
cacatttcca aacaaattgc tgaggataaa cgttacaaag gtatcatcga ttgctttgta	240
cgtatcccta aggagcaggg cgtactttcc ttctggcgtg gtaacttggc caatgtcatt	300
cgttatttcc caactcaggc tttgaacttc gcattcaaag acaagtacaa gcaagttttc	360
ttgggtggag ttgacaagaa gacccaattc tggcgttact tcgcaggaaa cttggcatct	420
ggtggtgctg tggagccaca tcattgtgct tcgtctaccc acttgatttc gccgaccaga	480
tggccgtgat gtagtnaagc gctggcaacg tgaatcttgg atggcaactg ttgaccaa	540
ctcaatctg	549

<210> 2056  
 <211> 538  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2056	
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agatatttta aatataaaat attttttaggg ataagcttaa aaataaatta ttataaatta	120
ataaattatt tataaattta tagggttata aatattcatt aatataaaaa tgttataatt	180
tatttataaa taaattaaaa tttagtagat tttaaatttt ttataaaaaat aatattttaa	240
attataaaaa atatgaaata atgattaaat tagtataata taattttattg ataataattaa	300
attgttaggt ttatttaagg aattcggcaa atataatatt cacctgttta acaaaaacat	360
gtctttttga aaataatata aagtctaate tgccattga agatttataaa ggccgcagta	420
atttgactgt gcaaaggtag cataatcaat agttttttta ttgaaagctg gaatgaatga	480
ttgaatgaaa tattaactgt cttaataaaa tggatatagaa ttaattttat gtaaaagc	538

<210> 2057  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2057	
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ttttgcacca agttttccgt cacgagcagc gctgttaact attagagcac taaatcttaa	120
ggttgatata aaagaagtaa atctgtttgc taaagaacaa tttaaaccag aatttttgaa	180
gattaacca caacattgtg ttccaacatt agatgacaat ggtttcgttc tttgggaaag	240
tcgggctata gctacttact tggccaggc ttatgggggt gaaaaatata gttccttgta	300

FC-8-C3.ST25.txt

tctcaagct gctaaagaaa aagcagttgt tgatcagaga ttatactttg atgctggagt	360
tttatttcct agaattcgag ccatttgctt tcctattcta tttttgggag aaactacgat	420
ttcacaagac aaaaaagacc aactaaatga agcatttggt atctagacgg tttcttgcaa	480
acaaagtggg tagctggaga caactttccg agcagataat gcattctggc ttgttctagc	540
atcaagctg	549

<210> 2058  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2058	
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atgaaaagtc agaaaatcca tttcaaacc aatctgattt caattacctt cctcttcttg	120
ttggaataac tgtagttttc gtcacattaa ttttattcct tctgtggcaa agaagaaaag	180
gtgctcgaag ggatatattg ataactggac ttagcgatgc tgggaaaact ttgttgattt	240
cacagctggg ccattcacag tcaaaagata ctcatcttc aattgctgtt aatgtcgatg	300
aatacatcac aaagaatgcg tcagtaagag ttgtggatat tcctggacat gaaagattac	360
gtggaagatt ttttgatgat tcaaagattc agcacgaggt attgtgtttg ttgttgattc	420
caccactttg cataaagaca ttcgtgatgt agctgagtac ttgacacgat ctttctgata	480
aatcagtact tctaattgctc	500

<210> 2059  
 <211> 545  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2059	
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tatgttcgag actatggcca ataataatca atggtggagg actggagagg atactgcttt	180
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taaaaatgtg gtatgccacc gcgatacgcg caatcacaat ttgatgttca aatataattc	360
aactgggtcta cctgaacaat gcatcttggt cgatttccaa agatgcacct acaatccacc	420
agctttggat ttcaatcatc ttctatatca gacaacatct agaagcttta gagaccagca	480
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gatgt 545

<210> 2060  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (471)..(471)  
 <223> n = unknown

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 atttatttat attaatatat tttattgggg tgataggaaa atttataaaa cttttttttt 180  
 attaaaacat aaataattga ataattgatc cataaattat gattaaaaga ttaagttact 240  
 taagggataa cagcgtaatt atttttaaga gaacatatcg acaaaataga ttgcgacctc 300  
 gatgttggat taagataatt ttaaaatgca gaagttttaa aatttgggtct gttcgaccat 360  
 taattcttca tgatctgagt tcaaaccggt ttaagccagg ttgggttcta tccttaattt 420  
 tttaaaatta attagtcgaa aggccattaa tttataataa ttattttaatt ngaataaaat 480  
 taaaaaaaaa aaaaaaaaaa a 501

<210> 2061  
 <211> 496  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2061  
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 gaagtgagtg tgtgaagata cttcaatcag attctttctt ggacctgtaa atactccgca 120  
 taaattacaa aatgtcttca tcagttctac cagaagaaaa tccaatctat ggacctttct 180  
 ttggagtcac gggcgagcg tcggctatca ttttcagcgc actgggtgcc gcatatggaa 240  
 cagccaagtc cggcactggt atcgccgcta tgtccgtgat gagacctgaa ttgatcatga 300  
 aatcaatcat tccagttggt atggctggta tcattgctat ctacggcctg gttgttgcg 360  
 tactgattgc ggggtgctctg gaggaaccaa aaacctactc actttataag ggcttcatac 420  
 atctcggcct gggttgccga ggattttccg gcttgcggcg gttttgcgat tggaatcgtg 480  
 gtgatgctgg agtcca 496

<210> 2062  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (510)..(510)  
 <223> n = unknown

<400> 2062  
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 gccgcccggtg ttaaattaag taaacttttt caagatgatg cccgcacttg cagacccagt 120  
 ggcttttcgcc aaggatttcg ccgcaggtgg tatttctgct gcagtctcta agactgtggt 180  
 agcaccatc gaacgtgtca aattgctcct gcaagtacaa cacatttcca aacaaattgc 240  
 tgaagataaa cgttacaaag gtatcatcga ttgctttgta cgtatcccta aggagcaggg 300  
 cgtactttcc ttctggcggtg gtaacttggc caatgtcatt cgttatttcc caactcaggc 360  
 tttgaacttt gcattcaaag acaagtacaa gcaagttttc ttgggtggag ttgacaagaa 420  
 gacccaattc tggcgttact tcgcaggaaa cttggcatct ggtggtgctg tggaccacat 480  
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 ctgtcaacg 549

<210> 2063  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2063  
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 cgccaaggat ttcgccgcag gtggtatttc tgccgcagtc tctaagactg tggtagcacc 180  
 catcgaacgt gtcaaattgc tcctgcaagt acaacacatt tccaaacaaa ttgctgagga 240  
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 cttcgcattc aaagacaagt acaagcaagt tttcttgggt ggagttgaca agaagacca 420  
 attctggcgt tacttcgcag gaaacttggc atctgggtgg gctgtggacc acatcattgt 480  
 gcttcgctac ccaattgatt tcgccgtcca gatggccgtg atgtaggtaa gcctggcaac 540  
 gtgaatctt 549

<210> 2064  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (490)..(490)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (522)..(522)  
 <223> n = unknown

<400> 2064  
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 aattagtaat gaaatggtat tcgttttttaa agttatctag tttttttaga aataaattta 120  
 atttattata tttaaatatt tatattaatt tattaaatat agatatttta aatataaaat 180  
 atttttaggg ataagcttaa aaataaatta ttataaatta ataaattatt tataaattta 240  
 taggggtata aatattcatt aatataaaaa tgttataatt tttttataaa taaattaaaa 300  
 tttagtagat tttaaatttt ttataaaaaat aatattttaa attataaaaa atatgaaata 360  
 atgattaaat tagtataata taattttattg ataattataa attgttaggt ttattttaagg 420  
 aattcggcaa atataatatt cctgttttaa caaaaacatg ctttttgaaa ataataataa 480  
 gtctaactctn ccatgaagat taaaagccgc gtaatttgct gngcaaggag catatcaata 540  
 gtttttaatt 549

<210> 2065  
 <211> 502  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2065  
 tttttctcga atttaaaagg gttaaatttat tatttaattt aatgtaatat aattatttaa 60  
 aataataaat tagtaatgaa atgttattcg ttttttaaagt tatctagttt ttttagaaat 120  
 aaatttaatt tatttatattt aaatatttat attaatttat taaatataga tatttttaaat 180  
 ataaaaatatt ttttagggata agcttaaaaa taaattatta taaattaata aattatttat 240  
 aaatttatag gggtataaat attcattaat ataaaaatgt tataatttat ttataaataa 300  
 attaaaaatt agtagatttt aaatttttta taaaaataat atttaaaatt ataaaaaata 360  
 tgaaataatg attaaattag tataatataa tttattgata atattaaatt gttagggtta 420

tttaaggaat tcggcaaata taatattccc tgttaacaaa aacatgtctt ttgaaaata 480  
 atataaagtc taatctgcca tg 502

<210> 2066  
 <211> 496  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2066  
 gaccattctg ctgaactgtg tctagcaggc catttttgac agtgggttcg ctagtttagt 60  
 gaagtgagtg tgtgaagata cttcaatcag attctttctt ggacctgtaa atactccgca 120  
 taaattacaa aatgtcttca tcagttctac cagaagaaaa tccaatctat ggacctttct 180  
 ttggagtcac gggcgcagcg tcggctatca ttttcagcgc actgggtgcc gcatatggaa 240  
 cagccaagtc cggcactggg atcgccgcta tgtccgtgat gagacctgaa ttgatcatga 300  
 aatcaatcat tccagttggt atggctggta tcattgctat ctacggcctg gttggtgcgg 360  
 tactgattgc ggggtgctctg gaggaaccaa aaacctactc actttataag ggcttcatac 420  
 atctcgccct ggtttgccga ggattttccg gcttgccggc gttttgcgat tggaaatcgtg 480  
 gtgatgctgg agtcca 496

<210> 2067  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (510)..(510)  
 <223> n = unknown

<400> 2067  
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 gccgcccgtg ttaaattaag taaacttttt caagatgatg cccgcacttg cagacccagt 120  
 ggctttcgcc aaggatttcg ccgcaggtgg tatttctgct gcagtctcta agactgtggt 180  
 agcaccatc gaacgtgtca aattgctcct gcaagtacaa cacatttcca aacaaattgc 240  
 tgaagataaa cgttacaaag gtatcatoga ttgctttgta cgtatcccta aggagcaggg 300  
 cgtactttcc ttctggcgtg gtaacttggc caatgtcatt cgttatttcc caactcaggc 360  
 tttgaacttt gcattcaaag acaagtacaa gcaagttttc ttgggtggag ttgacaagaa 420  
 gaccaattc tggcgttact tcgcaggaaa cttggcatct ggtgggtgctg tggaccacat 480

cattgtgctt cgtctaccca cttgattttn ccgtccagat ggccgtgatg aagtaaaggc 540  
ctgtcaacg 549

<210> 2068  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<400> 2068  
agaccctgct atatcgggct gagtttgcaa aagagtttta ttttaatttat tgttgccgcc 60  
cgtgttaaact taagtaaact ttttcaagat gatgcccgca cttgcagacc cagtggcttt 120  
cgccaaggat ttcgccgcag gtggtatttc tgccgcagtc tctaagactg tggtagcacc 180  
catcgaacgt gtcaaattgc tcctgcaagt acaacacatt tccaaacaaa ttgctgagga 240  
taaacgttac aaaggtatca tcgattgctt tgtacgtatc cctaaggagc agggcgctact 300  
ttccttctgg cgtggtaact tggccaatgt cattcggtat ttcccaactc aggctttgaa 360  
cttcgcattc aaagacaagt acaagcaagt tttcttgggt ggagttgaca agaagacca 420  
attctggcgt tacttgcag gaaacttggc atctggtggt gctgtggacc acatcattgt 480  
gcttcgctac ccacttgatt tcgccgtcca gatggccgtg atgtaggtaa gcctggcaac 540  
gtgaatctt 549

<210> 2069  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (490)..(490)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (522)..(522)  
<223> n = unknown

<400> 2069  
cgaatttaaa agggtaaatt tattatttaa tttaatgtaa tataattatt taaaataata 60  
aattagtaat gaaatgttat tcgtttttta agttatctag tttttttaga aataaattta 120  
atattattata tttaaattat tatattaatt tattaaatat agatatttta aatataaaat 180  
attttttaggg ataagcttaa aaataaatta ttataaatta ataaattatt tataaattta 240  
tagggttata aatattcatt aatataaaaa tggtataatt tattttataaa taaattaaaa 300



FC-8-C3.ST25.txt

tttagtagat tttaaatttt ttataaaaaat aatattttaa attataaaaa atatgaaata	360
atgattaaat tagtataata taattttattg ataataattaa attgttaggt ttatttaagg	420
aattcggcaa atataatatt ccctgtttaa caaaaacatg ctttttgaaa ataataataa	480
gtctaactctn ccatgaagat taaaagccgc gtaatttgct gngcaaggag catatcaata	540
gtttttaat	549

<210> 2070  
 <211> 502  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2070 tttttctcga atttaaaagg gtaaatttat tatttaattt aatgtaatat aattatttaa	60
aataataaat tagtaatgaa atgttattcg tttttaaaagt tatctagttt ttttagaaat	120
aaatttaatt tatttatatt aaatatttat attaatttat taaatataga tatttttaaat	180
ataaaatatt tttaggata agcttaaaaa taaattatta taaattaata aattatttat	240
aaatttatag gggtataaat attcattaat ataaaaatgt tataatttat ttataaataa	300
attaaaattt agtagatttt aaatttttta taaaaataat atttaaaatt ataaaaaata	360
tgaaataatg attaaattag tataatataa tttattgata atattaaatt gttagggtta	420
tttaaggaat tcggcaaata taatattccc tgtaacaaa aacatgtctt tttgaaaata	480
atataaagtc taatctgcca tg	502

<210> 2071  
 <211> 546  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (24)..(24)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (40)..(40)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (83)..(83)  
 <223> n = unknown

<400> 2071 tatggttcat tacacagaat tcgngcaaag aacactgttn tggcgactgg tggttatgga	60
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FC-8-C3.ST25.txt

cgagcatatt tttcatgcac ttnagcacat acctgcacag gtgatggcac cggtatggta	120
gccagagctg gattaccagc acaagattta gaatttgtgc agttccatcc tacaggtatt	180
tatggagctg gctgtttaat tactgaagga tgcagaggtg aaggtggatt tttggtaaat	240
tctcaaggag agagatttat ggaacgatat gcacctgttg caaaagattt ggccagtaga	300
gatgtggttt ctagatcaat gacaattgaa atcaatgaag gtcgcggtgt aggacctgag	360
aaagatcatg ttttattgca attacatcac ttaccagctg aacaattagc gagcagactt	420
cctggatatt ctgagacagc tatgatattt tgtggtgtga tgttactcgt gagccaatcc	480
cgtttaccac agtgcattat atatgggagg agtaccctaa atacaaggac agtcttaata	540
tgtgtg	546

<210> 2072  
 <211> 541  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2072	
attttcaaaa tgggtgtccaa agtggttgggt gctcttgcca tcattggctt tattggggct	60
gccaagcct ttttcgatca agatgctgtc ttagataaga tggtagatga catttctgct	120
gaatatgaaa acagcattgc aagaattagc caagacagca aaattgatat gattgctgca	180
gaattcgaaa aacaaggatt tgcccctgaa gtcgatagag atttggaaag gttcaacaaa	240
gaagttgaaa ggaaacttag caaaaaagtg agtgaagccg caaaggaatg ccttaaaggc	300
caacaccaaa aagctctagg ctacgcacaa gaagcccgtg ctaagggtcaa agcttgcagg	360
gatgataaac gtgatgaatt caaccaagtt cgccaaaatg gcttgccgct ggagagaagc	420
cagggagaac gccgaagccc tcagagcaca agccaaggag tgcgtgtgac cgccgccgtg	480
tcatgaacca gagcttggtg aagagtcctc cagctgccgc gaagactaag acttggcaag	540
g	541

<210> 2073  
 <211> 482  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2073	
cttaacctta cgaatactta gattttcttt aagaaaatct tctatctaag aagaaagcaa	60
attcaagttg atgcattatt ctccggaatt gttagagaat ctgaacaacg gttcgttggt	120
cttcagctac gaatacaacc ggcaactgtg agggctcttt aagaaactgg ctccggaagct	180

## FC-8-C3.ST25.txt

```

gctccacgtt aggacggccg tgctgaagat tgggaacaag taaagattac caggaaaggg 240
aaacgatgat gaccaggaac agaattatac cgcattcttag ccaacgtctt cggacatcat 300
gtcaacatca ttcatcacia atatcatcgc agtttaggta gtaatagtta acactttagg 360
ataggaaata agcttaaaga agggaacaag accatgatct tggaataact gttttctgat 420
tttcgtaatt gaaaataaaa gaaatactga aggggtacat gttcctgtac catcaaaata 480
tg 482

```

```

<210> 2074
<211> 508
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (16)..(16)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (28)..(28)
<223> n = unknown

```

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<220>
<221> misc_feature
<222> (32)..(32)
<223> n = unknown

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<220>
<221> misc_feature
<222> (121)..(121)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (197)..(197)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (321)..(321)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (456)..(456)
<223> n = unknown

```

```

<400> 2074
tcattttcaa aatggngtcc aaagtgtngg tnctcttgc catcattggc tttatagggg 60
ctgcacaagc ctttttcgaa caagatgccg tcttagataa gatggtagat gacatctctg 120

```

## FC-8-C3.ST25.txt

```

ntgaatatga gaacagcatt gcaagaatta gccaaagatag caaaattgat atgattgccg      180
ctgaattcga aaaacangga ttgcccctg aagtcgatag agatttggag aggttcaaca      240
aagaagttga aaggaaactt agcaaaaaag tgagtgaagc cgcaaaggaa tgccttaaag      300
gccaacacca aaaagctcta ngctacgcac aagaagcccg tgctaaggtc aaggcttgca      360
gagatgacaa acgtgatgaa ttcaaccaag ttcgcaaaat ggcttgccgc tggagagaaac      420
cagggagaaac gccgaagccc tcagagcaca agccanggag tgcggtgtga ccgagcgtgt      480
cgatgaacca gagtttgctt gaaggggt                                         508

```

```

<210> 2075
<211> 404
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (355)..(355)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (358)..(358)
<223> n = unknown

```

```

<400> 2075
gaattcaaaa ccaaatccgg aagagataaa ccaacattcg atactgaaat catttttagt      60
tgccgttccg gaaaacgagc aaaggaagct atggaaacag cattgggatt gtgttacaag      120
aatcaagat actacgaagg tagcttttta gaatggagca gcaagcagaa gaaacagtga      180
aattgcaggg ttaatcaaat attttatatg atacacatat tatttacaga tatgatcaaa      240
ctaagtatta cttgcgtgtg ttatattagc atattaatat tttcttatga aatgttctta      300
agatgatttt aaatattggt aaataaaatt tgtatacttt ttagatatgc accanatnaa      360
ttaaaataaa aatctttaca ttcctaaaaa aaaaaaaaaa aaaa                        404

```

```

<210> 2076
<211> 549
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (538)..(538)
<223> n = unknown

```

```

<400> 2076

```

## FC-8-C3.ST25.txt

```

ctccttttgc gaaggttgaa atattttaat tcgtgatatt tcaccaagtg actaaaatga      60
aagctgtaat atttttggtg gccatctcga ttgtccaatg ggcaaactgt gattaccatc     120
caccacctta cgcattttct cagtacagac caggatattc ttctgtgggc caatattata     180
agcctgagat ttttggacca aatgcaatca gtaccaacaa tagtcatcac tttcaagtag     240
gatacccaag ttatggaaac gttttgctgt accgtcaagt ccaatccaag agtggaaact     300
ttttcaggaa agctactaga gaggtgtcat ttccaccagt gggatcgaga aataatcgca     360
caattagctg tgttcgtgcc ctggaccaat atgtaaatgg caaggaggct atgccactct     420
tgtcaatggg ggagttggct ggaaaaatgt aactttactc ctatcttctc agactggcaa     480
aggatttaac ttttagtgaa atttggggat ttagattaga aattaatgaa atgtgatntg     540
aaaaaaatt                                     549

```

```

<210> 2077
<211> 549
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 2077
atttactaaa tattgtgaaa taaatcattt tcaaaatggt gtccaaagtg tttgtcgttc      60
ttgccatcat tggctttatt ggggctgccc aagccttctt cgatcaagat gccgtcttag     120
ataagatggg agatgacatc tctgctgaat atgaaaacag cattgcaaga attagccaag     180
atagcaaaat tgaaatgatt gctgctgaat tcgaaaaaca aggatttggc cctgaagtcg     240
atagagattt ggaaagggtc aacaaagaag ttgaaaggaa acttagcaaa aaagtgagtg     300
aagccgcaaa ggaatgcctt aaaggccaac accaaaaagc tctagggttt gcacaagaag     360
ctcgtgctaa ggtcaaggct tgcagggatg ataaactgta ggaattcaac caagttcgcc     420
aaaatggctt gccgctggag agaagccagg gagacgccga accctcagag cacaagccaa     480
ggagtgcggt gtaccgcacc gtgtcgatga accagacttg ttgaagatgt ccttcagctg     540
ccgtgaaga                                     549

```

```

<210> 2078
<211> 470
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (21)..(21)
<223> n = unknown

```

<220>  
 <221> misc\_feature  
 <222> (59)..(59)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (65)..(65)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (86)..(86)  
 <223> n = unknown

<400> 2078  
 atagaatttta atttttatgt naaaaagcgt aaatattatt aaaggacgag aagaccctnt 60  
 aaagntttat atataaatat agattnatnt taagaatatt attaaattta tttatattaa 120  
 tatattttat tggggtgata ggaaaattta taaaactttt tttttattaa aacataaata 180  
 attgaataat tgatccataa attatgatta aaagattaag ttacttaagg gataacagcg 240  
 taattatttt taagagaaca tatcgacaaa atagattgcg acctcgatgt tggattaaga 300  
 taatttttaa atgcagaagt tttaaaattt ggctgttcga ccattaattc ttacatgac 360  
 tgagttcaaa ccggttaagc caggttggtt ctatccttaa tttttaaaat taattagtac 420  
 gaaaggcctt aatttatata attattttta ttgaataaat aaaaaaaaaa 470

<210> 2079  
 <211> 508  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (156)..(156)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (363)..(363)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (449)..(449)  
 <223> n = unknown

<400> 2079  
 accacccag tattcaaata ctgtcactgt cagcgtaga ccaccgcctc cacctgtgcc 60  
 aattagaaca tcaacaaacc ctgattatca tcggaatata atttctcatg atgaaatgga 120

## FC-8-C3.ST25.txt

tgcagggcat aggtctcaac caaacagcct ttcagnaaat ggatcacatg ctaatgacag	180
tctgcgaagg catactggtg aatatgcata cacttcaggt tgggggccta gtcgtttaga	240
tggaggtcgt gcgactttgt tgcatttgtc tgacacaaga gaaacttcag atacacccaaa	300
tggtagtgc aataccacac caaatgccat aaaaaataat agaaggaatg gcatgttcaa	360
ttntcttcgt cctaataaat acaggcgcca atctaacaca taatgaatca ccaaggtaat	420
ggaagaatta gcatgccaaa taaaactcnt taataagtgg atgttatggt aaagaattaa	480
ttaagaatat atttcaagta taccaaaa	508

&lt;210&gt; 2080

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2080

cttcaatcag attctttctt ggacctgtaa atactccgca taaattacaa aatgtcttca	60
tcagttctac cagaagaaaa tccaatctat ggacctttct ttggagtcac gggcgacgcg	120
tcggctatca ttttcagcgc actgggtgcc gcatatggaa cagccaagtc cggcactggt	180
atcgccgcta tgtccgtgat gagacctgaa ttgatcatga aatcaatcat tccagttggt	240
atggctggta tcattgctat ctacggcctg gttgttgcgg tactgattgc gggtgctctg	300
gaggaaccaa aaacctactc actttataag ggcttcatac atctcggcgc tggtttggcc	360
gtaggatttt cgggcttggc ggcggtttt gcgattggaa tcgtggtgat gctggagtac	420
gaggaacagc ccacaacctc gtctgttggt gaatgatctt gatcctgac ttcgctgaag	480
tattgggtct atatggctta tcgaaccatc taccttacac caaataaaca aattattatg	540
gatttaaga	549

&lt;210&gt; 2081

&lt;211&gt; 515

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2081

ctcgaattta aaagggtaaa tttattattt aatttaatgt aatataatta tttaaaataa	60
taaattagta atgaaatggt attcgttttt aaagttatct agttttttta gaaataaatt	120
taatttatta tttttaaata tttatattaa tttattaaat atagatattt taaatataaa	180
atatttttag ggataagctt aaaaataaat tattataaat taataaatta tttataaatt	240
tatagggtta taaatattca ttaatatataa aatgttataa tttatttata aataaattaa	300
aatttagtag atttttaaatt ttttataaaa ataatattta aaattataaa aaatatgaaa	360

FC-8-C3.ST25.txt

taatgattaa attagtataa tataatztat tgataatatt aaattgttag gtttatttaa	420
ggaattcggc aaatataata ttccctgtta acaaaactgt cttttgaaat aatataagtc	480
taatctgccc atggagatta aaaggcgcag aattg	515

<210> 2082  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2082	
ttaacgttat tcgccataat gaagttgttg gtgttattcg caactctagc cgtaggccta	60
tgcctaggtg aaaaagttat attcaataac tataaagttt atagagtaat tgctgacaac	120
ttcgaacaag ttgaggttct gaagaatttg gaaaaggact ctgatgcgta caatttctgg	180
acccatgttg gagccccagg caaaaatgta gacatcatgg tacccccaca caaacttgag	240
gatttcgaaa gcacgatgca ataccataga ataaaccaca gtgtaatgag cgatgacgtc	300
cagaaagata tcgacctaga agtttttggg acaagtagag aagcttacag ttggaccaag	360
tatcaagatc ttgaaacaac ctatgcatgg atggacagct taccaaggca caccaggaa	420
aagtcactgt tctcaccatt ggcaaaactt ttgagggaag agacatcaag ggagtcaaga	480
tttcattcgg actgcaacca ggcggtattat tgcgctggat cacgcccgcg atggtcact	540
gcactgcct	549

<210> 2083  
 <211> 548  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (101)..(101)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (123)..(123)  
 <223> n = unknown

<400> 2083	
taattgaaag ctggaatgaa tgattgaatg aaatattaac tgtcttaata aaattgttat	60
agaatttaaat ttttatgtta aaaagcgtaa atattattaa nggacgagaa gaccctttaa	120
agntttatat ataaatatag attaatatta agaatattat taaatttatt tatattaata	180
tattttattg gggatgatagg aaaatttata aaactttttt tttattaaaa cataaataat	240



FC-8-C3.ST25.txt

tgaataattg atctataaat tatgattaaa agattaagtt acttaagggg taacagcgta	300
attatTTTTa agagaacata tcgacaaaat agattgCGac ctCGatgttg gattaagata	360
attttaaaat gcagaagttt taaaatttgg tctgttcgcc attaatctt acatgatctg	420
agttcaaacc ggtttaagcc aggtggttct atccttaatt ttttaaaatt aattagtagc	480
aaaggccatt aatttataat aattatttta attgaataaa ataaaaaaaa aaaaaaaaaa	540
aaaaaaaa	548

<210> 2084  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2084	
attaatacgt tgcaccgtag ctctaaagt acgtttacaat gtcggggaggc ttggatgttc	60
ttgccctacg ggaagatgat gttacaaaa tgttagccgc atgcacccat cttggcagcg	120
aaaatgtgaa cttccagatg gagcaatag tgtacaaacg cgtgctgat ggagtacatg	180
taatcaactt acgtcgaca tgggagaagc ttttgttggc tgctcgtgct attgttgcta	240
ttgagcatcc agctgatgtc ttcgttattt cctccagacc tcaaggacaa cgtgcagtat	300
tgaagttcgc caactatact ggtgctactc caattgctgg acgtttcact cctggtgcct	360
tcactaatca gattcaagct gcattccgtg aaccacgttt gctgttgtag tgatcctcac	420
tccgatcacc aacccatcac tgaggcttca tatgtgaaca ttctgtattg cattcaaccac	480
actgattctc cattgaaatt tgtgtattga attcatgcaa cacaagtcca accatcccg	540
gggttgatg	549

<210> 2085  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (406)..(406)  
 <223> n = unknown

<400> 2085	
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gcacaagcct ttttcgaaca agatgccgtc ttagataaga tggtagatga catctctgct	120
gaatatgaga acagcattgc aagaattagc caagatagca aaattgatat gattgccgct	180

## FC-8-C3.ST25.txt

gaattcgaaa aacaaggatt tgcccctgaa gtcgatagag atttggagag gttcaacaaa 240  
gaagttgaaa ggaaacttag caaaaaagtg agtgaagccg caaaggaatg ccttaaaggc 300  
caacaccaaa aagctctagg ctacgcacaa gaagcccgtg ctaagggtcaa ggcttgcaga 360  
gatgacaaac gtgatgaatt caaccaagtt cgccaaaatg gcttgnctgt ggagagaagc 420  
caggggagaac gccgaagccc tcagagcaca agccaaggat gcgttgtgac cgcagccgtg 480  
tcgatgaacc agagtttgct tgaaaggggt ctcaagctgc cacgaaggac aaaagacttg 540  
gcaagcctc 549

<210> 2086  
<211> 511  
<212> DNA  
<213> Ctenocephalides felis

<400> 2086  
tccagaccct gctatatcgg gtcgagtttg caaaagagtt ttatttaatt tattgttgcc 60  
gcccggtgta aattaagtaa actttttcaa gatgatgccc gcacttgcag acccagtggc 120  
tttcgccaag gatttcgccg caggtggtat ttctgctgca gtctctaaga ctgtggtagc 180  
acccatcgaa cgtgtcaaatt tgctcctgca agtacaacac atttccaaac aaattgctga 240  
ggataaacgt tacaaggta tcatcgattg ctttgtacgt atccctaagg agcagggcgt 300  
actttccttc tggcgtggta acttggccaa tgtcattcgt tatttcccaa ctcaggcttt 360  
gaactttgca ttcaaagaca agtacaagca aattttcttg ggtggagttg acaagaagac 420  
ccaattctgg cgttacttcg caggaaactt ggcatctggt ggtgctgctg gagccacatc 480  
attgtgcttc gtctaccac ttgattcgcc g 511

<210> 2087  
<211> 550  
<212> DNA  
<213> Ctenocephalides felis

<400> 2087  
aataaaacaa tttaaaaacg aaaatgggtc cgacgaaatt gtgtttgcaa tttttgattg 60  
ttgcatttgt cgatatatcg acgagtgcc aacaatacac atgtctaacc gatggcgaaa 120  
aagaaaccac aacatgcaaa ctcatcaacg aatgttacgt aatttacaac acaaagtcag 180  
gaaccaccaa ctacggttgc ctaatcaaga tgacgaattc ccaaagaaac tactgtgcca 240  
aaaatccaca catgtgcata acttgcactg gaaataattg caataccaaa gatttgatga 300  
aaatgtgcat cacttgcacc tccaaggagg acgagagatg caccaccgat cctcagcaat 360  
tggtctaaaac ttctgtcagg ccttgcaatg gtgattgcat tacacatgtc cttocagatg 420

gtacaaatac aaggggttgt atgaaaccaa ctgatgctgt gatgatatga aatgccagga 480  
gtgcaaaggt aacctttgta tgcgtgtttt cccaagaaat cgcagggttg aacgctaaag 540  
atgatgcaag 550

<210> 2088  
<211> 228  
<212> DNA  
<213> Ctenocephalides felis

<400> 2088  
gactgtgctg actgcttaaa acttactgat aactaaatta gtttagtaat ttataacaa 60  
actgtaaatt gcttaaaatt gctttatgac cagctagttg tatattatgt gtttttgatg 120  
gttttagttt ttttatgtaa cattttgaca aataaaaatt gcttataaaa ataaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 228

<210> 2089  
<211> 529  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (23)..(23)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (29)..(29)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (50)..(50)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (118)..(118)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (121)..(121)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (138)..(138)  
<223> n = unknown

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<220>
<221> misc_feature
<222> (143)..(143)
<223> n = unknown

<400> 2089
tcattttcaa aatggtgtcc aangtgttng tcgttcttgc catcattggn tttattgggg      60
ctgcccgaagc cttcttcgat caagatgccg tcttagataa gatggtagat gacatctntg      120
ntgaatatga aaacagcنتt gcnagaatta gccaaagatag caaaattgaa atgattgctg      180
ctgaattcga aaaacaagga tttgcccctg aagtcgatag agatttggaa aggttcaaca      240
aagaagttga aaggaaactt agcaaaaaag tgagtgaagc cgcaaaggaa tgccttaaag      300
gccaacacca aaaagctcta ggttttgcac aagaagctcg tgctaaggtc aaggcttgca      360
gggatgataa acgtgaggaa ttcaaccaag ttcgccaaaa tggcttgccg ctggagagaa      420
gccagggaga acgccgaagc cctcagagca caagccaagg agtgcgttgt cgcgaccgtg      480
tcgataagcc agacttgctt gaagatgtct tcagctgccg tgaagacca                    529

<210> 2090
<211> 550
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (68)..(68)
<223> n = unknown

<400> 2090
attaagtgtt ttaaattctc caaatggagt ccaattccaa ggcgagactc ctttaccaca      60
atcattgnta aaggaattgt attccgtagc cctaggattg acatcggagc agagttctgc      120
cgaatgggac ggagtgagta aattaaatcc ttttcaatta cctaaagctg tagtcaactgt      180
agttgtagaa ggacagata aacttagttt ggactcgaag aacacttatc ctttggttgt      240
ggatgaggaa ttggataaca cttgggactc cttagataaa cgcttcaaag aacgttatcc      300
cttcgatgat ttgactcttg tgaacttgga attacctaatt ggtaacgtta attctgagcg      360
tgtcttttgt gttgtatcac ccaaaccggg caaagtgatt taccagagaa gtttgtgaaa      420
gacttgggtg tctcaacgct ttatctgcaa agtttggact aaccctgatg agcgccctac      480
ctgtcttctt ccgttatcac aattcaatcc ccgaaaccgg ccaagccaaa cagactacca      540
agcctcaaac                                                                550

<210> 2091

```

<211> 484  
 <212> DNA  
 <213> *Ctenocephalides felis*  
  
 <400> 2091  
 tagaatttaa tttttatggt aaaaagcgta aatattatta aaggacgaga agacccttta 60  
 aagttttata tataaatata gattaatttt aagaatatta tttaaatttat ttatattaat 120  
 atatttttatt ggggtgatag gaaaatttat aaaacttttt ttttattaaa acataaataa 180  
 ttgaataatt gatccataaa ttatgattaa aagattaagt tacttaaggg ataacagcgt 240  
 aattattttt aagagaacat atcgacaaaa tagattgcga cctcgatggt ggattaagat 300  
 aatttttaaaa tgcagaagtt ttaaaatttg gtctgttcga ccattaattc ttacatgatc 360  
 tgagttcaaa ccggtttaag ccagggtggt ttctatcctt aattttttta aattaattag 420  
 tcgaaaggcc attaatattat aataattatt ttaatttgat aaaattaaaa aaaaaaaaaa 480  
 aaaa 484

<210> 2092  
 <211> 533  
 <212> DNA  
 <213> *Ctenocephalides felis*  
  
 <400> 2092  
 aaaacagata aaaaatacat aagcgatgtg taagcaaaga aattataaaa aaaataaaaa 60  
 ggaaatgtgt ttaatacaca cagaaagacg tttggaagta tgacattttt aaatattata 120  
 caatatatat aaaaactatc ttataattat aatataacta tcttataata gtttggtgta 180  
 aacgtataag aataatcatt aggttggtatt cacaaactaa aacttgatac aaacaactaa 240  
 tcatgaaata atacttattg ctaaatatgt gaatatccac cttaaactta tattaataat 300  
 catatataat aacaatatta ataatatatt tatcaatctt taatcgataa cccaaccata 360  
 tatatattta ttcgaaagca tgcaatatgt gtatattaac attaataaga agaacgttgt 420  
 aataatatga atattatgat attattataa taataaatta taaagtatat ttatcaatat 480  
 aataataatg ttagcttagc ttgctgtact gaaacttatt cgaaaataat gca 533

<210> 2093  
 <211> 426  
 <212> DNA  
 <213> *Ctenocephalides felis*

<220>  
 <221> misc\_feature  
 <222> (343)..(343)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (380)..(380)  
 <223> n = unknown

<400> 2093  
 cagatatttta ctaaattattg tgaaataaat cattttcaaa atggtgtcca aagtgtttgt 60  
 cgttcttgcc atcattggct ttattggggc tgcccaagcc ttcttcgatc aagatgccgt 120  
 cttagataag atggtagatg acatctctgc tgaatatgaa aacagcattg caagaattag 180  
 ccaagatagc aaaattgaaa tgattgctgc tgaattcgaa aaacaaggat ttgcccctga 240  
 agtcgataga gattttggaaa ggtcaacaaa gaagttgaaa ggaacttaac aaaaaagtga 300  
 gtgaagccgc aaaggaatgc cttaaaggcc acacaaaag cnttaggttt gcacaaaaag 360  
 ctcgtctagg caggcttgcg ggattataac gtgagaatca cccagtcgcc aaatgcttgc 420  
 cgctga 426

<210> 2094  
 <211> 519  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (65)..(65)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (377)..(377)  
 <223> n = unknown

<400> 2094  
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 ttctncgtac agtagcttac aggtgagatc aatttaattc aactcaactg gctatacatt 120  
 ttattacaag atgcactccg taatcaattc cactttgcga accctgagca aaacagaatc 180  
 gggtaaaatc gcatcgattt tatcgaacag caggagttat gctgccaaag cagcagcagg 240  
 tgcccaaggc aaagttgttg ccgttatcgg tgctgttgta gatgtacaat tcgaagatag 300  
 cttacctccc atcctaaatg ctcttgaagt atccaacaga aagccaaggc tcgtccttga 360  
 agtagcccag catttangag aaaataccgt ccgtacaatt gctatggatg gtaccgaggg 420  
 tttggtacgt ggtcaagggtg ttgttgactg cggatcacc atcaggatcc ccgtgggagc 480  
 tggacattgg caggatcatg aacgtatcgg agaaccaat 519

<210> 2095  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2095  
 ctgctcgatt tttgtgtcaa ttgcagttt tagtagttat tttatttaga aatttgttat 60  
 aaatcaaate agcaaccatg gctttaagcg atgccgatgt acaaaaacaa atcaagcaca 120  
 tgatggcttt cattgagcaa gaagccaatg aaaaagctga ggaaattgac gcaaaagcag 180  
 aagaggaatt caacattgaa aagggacgat tggtagcaga acagcgacta aagattatgg 240  
 aatactatga gaagaaggaa aaacaagttg aattgcaaaa gaaaattcaa tcatccaaca 300  
 tgctcaacca agctcgattg aaggtattga aagttcgtga agatcatgtg aggaatgttt 360  
 tggatgaagc ccgcaaaagg ttgggagaag ttacacgtaa taaggaacaa tacaagaag 420  
 ttttaacaac acttattgtc aaggaatgtt ccagcttatg gagcccaaag tattattgag 480  
 gccgcaaagc tgatttagat tggtagatag tttactgtgc catggtcagt ataaacacaa 540  
 tggtagcaaa 550

<210> 2096  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2096  
 aattcgcccc ctgctatatc gggtcgagtt tgcaaaagag ttttatttaa tttattggtg 60  
 ccgcccgtgt taaattaagt aaactttttc aagatgatgc ccgcacttgc agaccagtg 120  
 gctttcgcca aggatttcgc cgcaggtggt atttctgctg cagtctctaa gactgtggtg 180  
 gcacccatcg aacgtgtcaa attgctcctg caagtacaac acatttccaa acaaattgct 240  
 gaggataaac gttacaaagg tatcatcgat tgctttgtac gtatccctaa ggagcagggc 300  
 gtactttcct tctggcgtgg taacttggtc aatgtcatte gttatttccc aactcaggct 360  
 ttgaacttcg cattcaaaga caagtacaag caagttttct tgggtggagt tgacaagaag 420  
 acccaattct ggcgttactt cgcaggaaac ttggcatctg gtggtgctgc tggagccaca 480  
 tcattgtgct tcgtctaccc acttgatttc gccgtaccag attgccgtga tgaggtaaag 540  
 gcgctggcaa 550

<210> 2097  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2097  
 gtgaaataaa tcattttcaa aatggtgtcc aaagtgtttg tcgttcttgc catcattggc 60  
 tttattgggg ctgccaagc cttcttcgat caagatgccg tcttagataa gatggtagat 120  
 gacatctctg ,ctgaatatga aaacagcatt gcaagaatta gccaaagatag caaaattgaa 180  
 atgattgctg ctgaattcga aaaacaagga ttgcccctg aagtcgatag agatttgga 240  
 aggttcaaca aagaagttga aaggaaactt agcaaaaaag tgagtgaagc cgcaaaggaa 300  
 tgccttaaag gccaacacca aaaagctcta ggttttgcac aagaagctcg tgctaaggtc 360  
 aaggcttgca gggatgataa acgtgaggaa ttcaaccaag ttcgccaaaa tggcttgccg 420  
 ctggagagaa gccagggaga acgccgaagc cctcagagca caagccaagg atgcgtgtac 480  
 cgcaccgtgt cgatgaacca gacttgcttg aaagatgtcc ttcaagctgc cgtgaaggac 540  
 caggcttggc 550

<210> 2098  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2098  
 gtgaattcgt ttgccgggt cgtagtaacc aatttaatat aatggctcct ccaccatacg 60  
 cagacttggg gaaacaagct agggaggtat ttaacagtgg ctatcatttt ggtcttttca 120  
 aattgaattt gaaaactaaa actgcctctg gggttgaatt cacttcagga ggaacttctg 180  
 aacatgaaac tggcaaggta ttggatctt tggagacaaa atacaaagta agtgattacg 240  
 gtctcacttt ttctgaaaaa tggaacacag acaatacttt agctacagaa gtttcatac 300  
 aagatcaaat agctaaagggt ttgaaagtat cattcgactg ctcttttcgca ccacaaacgg 360  
 gaagcaaaac tgggtgttttg aaaactgctt cttacatgat agtgttgcag taaatgctga 420  
 tgtaaatttg aatttatcag gacctttgat caatgccagc gcagtagttg gtatcaagg 480  
 ggttggccgg ttatcaaact ggatttactc tgaaaattca aggcacaaag acacttgctt 540  
 tgatctcaca 550

<210> 2099  
 <211> 427  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (41)..(41)



<223> n = unknown

<400> 2099

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atcgggtcga gtttgcaaaa gagttttatt taattttattg ntgccgcccg tgttaaatta      60
agtaaacttt ttcaagatga tgcccgcact tgcagacca gtggctttcg ccaaggattt      120
cgccgcaggt ggtattttctg ccgcagtctc taagactgtg gtagcaccca tcgaacgtgt      180
caaattgctc ctgcaagtac aacacatttc caaacaatt gctgaggata aacgttacaa      240
aggtatcatc gattgctttg tacgtatccc taaggagcag ggcgtacttt ccttctggcg      300
tggttaacttg gccaatgtca ttcgttatctt cccaactcag gctttgaact tcgcattcaa      360
agacaagtac aagcaagttt tcttggttg agttgacaag aagaccaat tctggcgta      420
cttcgca                                           427
```

<210> 2100

<211> 548

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (417)..(417)

<223> n = unknown

<400> 2100

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gtgaaataaa tcattttcaa aatggtgtcc aaagtgtttg tcgttcttgc catcattggc      60
tttattgggg ctgcccgaagc cttcttcgat caagatgccg tcttagataa gatggtagat      120
gacatctctg ctgaatatga aaacagcatt gcaagaatta gccaagatag caaaattgaa      180
atgattgctg ctgaattcga aaaacaagga ttgcccctg aagtcgatag agatttggaa      240
aggttcaaca aagaagttga aaggaaactt agcaaaaaag tgagtgaagc cgcaaaggaa      300
tgccttaaag gccaacacca aaaagctcta ggttttgcac aagaagctcg tgctaaggtc      360
aaggcttgca gggatgataa acgtgaggaa ttcaaccaag ttcgcaaaat ggcttgnccg      420
tgagagagaag ccagggagaa cgccgaagcc ctcagagcac aagccaagga gtgcgtgtcc      480
gcaccgtgtc gatgaaccag acttggttgaa agatgtcctt caagctgccg tgaagaccag      540
gcttgcca                                           548
```

<210> 2101

<211> 525

<212> DNA

<213> Ctenocephalides felis

<400> 2101

## FC-8-C3.ST25.txt

```

gttttttaaat tgaaagctgg aatgaatgat tgaatgaaat attaactgtc ttaataaaat      60
tgttatagaa tttaattttt atgttaaaaa gcgtaaatat tattaagga cgagaagacc      120
ctttaaagtt ttatatataa atatagatta attttaagaa tattattaaa tttatttata      180
ttaatatatt ttattggggt gataggaaaa ttataaaac ttttttttta ttaaaacata      240
aataattgaa taattgatcc ataaattatg attaaaagat taagttactt aagggataac      300
agcgtaatta tttttaagag aacatatcga caaaatagat tgcgacctcg atgttggtt      360
aagataattht taaaatgcag aagtttttaa atttggctgt tcgaccatta attcttcatg      420
atctgagttc aaaccgggta agccaggttg ttctatcctt aattttttaa attaattagt      480
acgaaaggcc attaattata ataattattt aatttgataa aatta                          525

```

```

<210> 2102
<211> 524
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (112)..(112)
<223> n = unknown

```

```

<400> 2102
...attttaaagg ccgcagtaat ttgactgtgc aaaggtagca taatcaatag ttttttaatt      60
gaaagctgga atgaatgatt gaatgaaata ttaactgtct taataaaatt gntatagaat      120
ttaattttta tggtaaaaag cgtaaatatt attaaaggac gagaagaccc tttaaagttt      180
tatatataaa tatagattaa ttttaagaat attattaaat ttattttatat taatatattt      240
tattggggtg ataggaaaat ttataaaact ttttttttat taaaacataa ataattgaat      300
aattgatcca taaattatga ttaaaagatt aagttactta agggataaca gcgtaattat      360
ttttaagaga acatatcgac aaaatagatt gcgacctcga tgttggtatta agataattht      420
aaaatgcaga agtttttaaaa tttggctgtc gccttaattc ttacatgatc tgagtcaaac      480
cggttaagcc aggtggttct atccttaatt tttaaaatta tagt                          524

```

```

<210> 2103
<211> 483
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (37)..(37)

```

&lt;223&gt; n = unknown

&lt;400&gt; 2103

```

aatggctcct ccaccatacg cagacttggg gaaacangct agggaggtat ttaacagtgg      60
ctatcatttt ggtcttttca aattgaattt gaaaactaaa actgcctctg ggggttgaatt    120
cacttcagga ggaacttctg aacatgaaac tggcaaggta tttggatctt tggagacaaa    180
atacaaagta agtgattacg gtctcacttt ttctgaaaaa tggaacacag acaatacttt    240
agctacagaa gtttccatac aagatcaaat agctaaaggt ttgaaagtat cattcgactg    300
ctcttttcgca ccacaaacgg gaagcaaaac tgggtgttttg aaaactgcct tcttacatga    360
tagtgttgca gtaaatgctg atgtaaattt gaatttatca ggacctttga tcaatgccag    420
cgcagtagtt ggttatcaag gatggtggcg gtatcaaact ggatttgact ctgaaaattc    480
caa                                              483

```

&lt;210&gt; 2104

&lt;211&gt; 550

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2104

```

gtccaaagtg tttgttgctc ttgccatcat tggctttatt ggggctgccc aagccttttt      60
cgatcaagat gctgtcttag ataagatggg agatgacatt tctgctgaat atgaaaacag    120
cattgcaaga attagccaag acagcaaaat tgatatgatt gctgcagaat tcgaaaaaca    180
aggatttgcc cctgaagtcg atagagattt ggaaagggtc aacaaagaag ttgaaaggaa    240
acttagcaaa aaagtgagtg aagccgcaaa ggaatgcctt aaaggccaac accaaaaagc    300
tctaggctac gcacaagaag cccgtgctaa ggtcaaagct tgcagggatg ataaacgtga    360
tgaattcaac caagttcgca aaatggcttg gccgctggag agaagccagg gagaacgccg    420
aagccctcag agcacaagcc aaggagtgcg ttgtgaccgc cgccgtgtcg atgaaccaga    480
cttgttgaag agtcctccag ctgccgcgaa gactaagact tgccaggttt caagaacctg    540
tccaatgggc                                              550

```

&lt;210&gt; 2105

&lt;211&gt; 465

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2105

```

atttaattta ttgttgccgc ccgtgttaaa ttaagtaaac tttttcaaga tgatgcccg      60
acttgacagc ccagtggctt tcgccaagga tttcgccgca ggtggtattt ctgccgcagt    120

```

## FC-8-C3.ST25.txt

ctctaagact gtggtagcac ccatcgaacg tgtcaaattg ctcttgcaag tacaacacat 180  
 ttccaaacaa attgctgagg ataaacgtta caaaggtaac atcgattgct ttgtacgtat 240  
 ccctaaggag cagggcgtag tttccttctg gcgtggtaac ttggccaatg tcattcgtta 300  
 tttcccaact caggctttga acttcgcatt caaagacaag tacaagcaag ttttcttggg 360  
 tggagttgac aagaagaccc aattctggcg ttacttcgca ggaaacttgg catctggtgg 420  
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 <212> DNA  
 <213> Ctenocephalides felis

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 ttttatgtgc agtttacttg attgtcgttc ggaaaaaaaa tcaaagttcg tcgagcgcgt 180  
 ggtgactaat gtctgttgta cgggcggcgt gacaacatct tttaaaaaat tatttcagtt 240  
 tgaaattaaa aattttattt tttaaataat tttgtgaaaa tatttatcat aacatatttt 300  
 ataaaaattt aatattgttg aattgtgata attaattatg aattcgtact tgtaaacatt 360  
 actcttggca ccgttcatca tctcgatctg ctgagctgat tatgtcgatc gagggaaaaac 420  
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 aagaatcgag atccccagtg ccaaaatgtg ggtcatgatt ggcg 524

<210> 2107  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <223> n = unknown

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 gacgagaaga ccctttaaag ttttatatat aaatatagat taattttaag aatattatta 180  
 aatttattba tattaatata ttttattggg gtgataggaa aatttataaa actttttttt 240  
 tattaaaaca taaataattg aataattgat ccataaatta tgattaaaag attaatgttac 300

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ttaagggata acagcgtaat tatttttaag agaacatatc gacaaaatag attgcgacct	360
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attcttacat gatctgagtt caaacgggtt taagccaggt ggtctatcct tattttttaa	480
attaatagac gaaaggcctt aatttataat aatatttaat tgaataaata aaaaaaaaaa	540
aaaaaaaa	548

<210> 2108  
 <211> 547  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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aatttgctga ttctgtaagc ggaaaaaaat ttcctaccat taatccaacc aatgaaaaaa	180
aaattataga cgtatcggaa ggtgataagg ccgatgtaga tctggcagtc gcagctgcc	240
aaaaagcggt tgcgctaaac tcatcatggc gccagatgga cgcactctga cgcggaaagc	300
tactcaacaa gtttgctgac ttgattgaaa gagatattca atatttagca aatttagaaa	360
ccttagacaa tggaaaacca ttttctaata gtattataga tatacaatgc gctatcaata	420
ccatcagata ttatgctggc ggtgcgacaa aattcatgga catacaattc agcagattat	480
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gcttggg	547

<210> 2109  
 <211> 452  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2109	
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cccaatgtca tactgttgaa gcaggaggca aacataaaac aggtccaaac cttcatggat	180
tgtttggtag aaaaactggt caagcccctg gattcgtgta cacagatgcc aacaaagcaa	240

FC-8-C3.ST25.txt

agggaatcac gtggaacaag gacacactat ttgaatatct cgaaaatcca aagaaatata	300
tcccaggaac aaagatggtg ttcgctggat tgaagaagcc acaagaacgc gcagacttaa	360
tagcatatatt agaatcaagc acaaagtaga aaatgaaata aattaaatga ataattacaa	420
ttatatgtct aaaaaaaaaa aaaaaaaaaa aa	452

<210> 2110  
 <211> 534  
 <212> DNA  
 <213> Ctenocephalides felis

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ctttaagtt ttatatataa atatagatta attttaagaa tattattaaa tttatttata	180
ttaatataatt ttattggggg gataggaaaa ttataaaaac ttttttttat taaaacataa	240
ataattgaat aattgatcca taaattatga ttaaaagatt aagttcttaa gggataacag	300
cgtaattatt tttaagagaa catatcgaca aaatagattg cgacctcgat gttggattaa	360
gataatttta aaatgcagaa gttttaaaat ttggctgttc gccattaatt cttacatgat	420
ctgagttcaa accggttaag ccagggtggt ctatccttaa tttttaaaat taattagtac	480
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<210> 2111  
 <211> 507  
 <212> DNA  
 <213> Ctenocephalides felis

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ctttcgccaa ggatttcgcc gcagggtggt tttctgccgc agtctctaag actgtggtag	180
cacccatcga acgtgtcaaa ttgctcctgc aagtacaaca catttccaaa caaattgctg	240
aggataaacg ttacaaaggt atcatcgatt gctttgtacg tatccctaag gagcagggcg	300
tactttcctt ctggcgtggt aacttgcca atgtcattcg ttatttccca actcaggctt	360
tgaacttcgc attcaaagac aagtacaagc aagttttctt ggggtggagt gacaagaaga	420
cccaattctg gcgttacttc gcaggaaact tggcatctgg tgggtgctgtg gaccacatca	480
ttgtgcttcg tctaccact tgatttc	507

<210> 2112  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

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 cgaggctgca atctattttg tcgatatggt ctcttaaaaa taattacgct gttatccctt 240  
 aagtaactta atctttttaat cataatztat ggatcaatta ttcaattatt tatgttttaa 300  
 taataaaaaa gttttataaa ttttcctatc accccaataa aatatattaa tataaataaa 360  
 ttaataata ttcttaaaat taatctatat ttatatataa aacttttaaag ggcttctcgc 420  
 ctttaataat atttacgctt tttaacataa aaattagcac gagggggggc cggtacccaa 480  
 ttgcctata gtggctgata caattcactg ccgcgtttac acgcggactg ggaaaccctg 540  
 cgtccact 549

<210> 2113  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2113  
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 gcgcagcgtc ggctatcatt ttcagcgcac tgggtgccgc atatggaaca gccaagtccg 180  
 gcactgggat cgcgctatg tccgtgatga gacctgaatt gatcatgaaa tcaatcattc 240  
 cagttgttat ggctggatc attgctatct acggcctggt tgttgcggtta ctgattgcgg 300  
 gtgctctgga ggaacaaaa acctactcac ttataaggc cttcatacat ctggcgctg 360  
 gtttgccgt aggatcttcc ggcttgccgg cgggttttgc gattggaatc gtggtgatgc 420  
 tggagtacga ggaacagccc aacaacctcg tctgttggtg aatgatcttg atcctgatct 480  
 tcgctgaata ttgggtctat atggctctat gtaccatcta cttacccaaa taaacaaata 540  
 ttatggttt 549

<210> 2114  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

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<400> 2114  
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 ggaaatttag gggaagatga agacgacccc gaacaactgc aatatgtaaa ggtacctatt 180  
 gttaactgga ctcaagtcaa aactatatat ggaaatgaag gactaataat tacccaaaat 240  
 atgatttgtg ctgggttatcc tgaaggcggg aaggactctt gccaggaga tagcgggtggc 300  
 ccactcgtca actctaaggg agttctgcat ggaatagtgt cttggggaat aggatgtgca 360  
 cgacccgaaa tcccaggagt atataccga gtggcttcaa aaccaataag agaatttatc 420  
 aaaatgcaca ctggaatata agagttttta cttataatat taciaaatatt ttttgtattc 480  
 cttaatattca atgatattca agacgagatg tttacaaatt tgtactcact aacaaataaa 540  
 cctatactc 549

<210> 2115  
 <211> 111  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (81)..(81)  
 <223> n = unknown

<400> 2115  
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<210> 2116  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (531)..(531)  
 <223> n = unknown

<400> 2116  
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 aaaattaaaa ttgtgtataa gttaaatttaa tttattgtat cttgtgtatc agagttaatt 120



FC-8-C3.ST25.txt

taataaaaga tatgaagaat atttttctcg aattttaaag ggtaaattta ttatttaatt	180
taatgtaata taattattta aaataataaa ttagtaatga aatgttattc gtttttaaag	240
ttatctagtt tttttagaaa taaatttaat ttattatatt taaatattta tattaattta	300
ttaaatatag atatttttaa tataaaatat ttttagggat aagcttaaaa ataaattatt	360
ataaattaat aaattattta taaatttata ggggtataaa tattcattaa tataaaaatg	420
ttataattta ttataaata aattaaaatt tagtagattt taaattttta taaaaataat	480
attttaaatt ataaaaaata tgaataatga taaatagata attaattatg ntatattaat	540
tggtagggt	549

<210> 2117  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2117 attcttcacc tgattttttt aaaatctaaa gattttcaaa aaaaaattac gattttttct	60
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gtccagaaat ccttaaaaag ttgatcacgt tattaatgga caccocctaa ttgatgatac	180
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caaattattt taaaaaaaat gaagattttt acgatttttt cgtaactaaa aatacacctg	360
atgtttgctg gggcgatgag gggggaattt tgaatattac caaggagag ggggttccag	420
aaatccttaa aaaatttatc atgtgaccaa tggcgcccc ttaggattaa tatgcagtaa	480
aagtttttta ttcttattta tttaaaaaaa tgccatgttg tggcceaat aaaaacgtac	540
gatctattt	549

<210> 2118  
 <211> 527  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (429)..(429)  
 <223> n = unknown

<400> 2118 gttcttcaga tatttactaa atattgtgaa ataaatcatt ttcaaatgg tgtccaaagt	60
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FC-8-C3.ST25.txt

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tgccgtctta gataagatgg tagatgacat ctctgctgaa tatgaaaaca gcattgcaag	180
aattagccaa gatagcaaaa ttgaaatgat tgctgctgaa ttcgaaaaac aaggatttgc	240
ccctgaagtc gatagagatt tggaaagggt caacaaagaa gttgaaagga aacttagcaa	300
aaaagtgagt gaagccgcaa aggaatgcct taaaggccaa caccaaaaag ctctaggttt	360
tgcacaagaa gctcgtgcta aggtcaaggc ttgcagggat gataaacgtg aggaattcaa	420
ccaagttcnc aaaatggctt gccgctggag agaaccaggg agaaccgaa ccctcaagca	480
caagccaagg atgcgttgta ccgcaccgat gtcgatgaac cagactt	527

<210> 2119  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2119 gccatttttg acagtgggtt cgctagttta gtgaagtgag tgtgtgaaga tacttcaatc	60
agattctttc ttggacctgt aaatactccg cataaattac aaaatgtctt catcagttct	120
accagaagaa aatccaatct atggaccttt ctttggagtc atgggcgcag cgtcggctat	180
cattttcagc gcactgggtg ccgcataatg aacagccaag tccggcactg gtatcgccgc	240
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tatcattgct atctacggcc tggttgttgc ggtactgatt gcgggtgctc tggaggaacc	360
aaaaacctac tcactttata agggcttcat acatctcggc ctggtttgcc gtaggatttt	420
ccggcttgcg ggggttttgc gattggaatc gtggtgatgc tggagtacga ggaacagccc	480
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<210> 2120  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
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 <223> n = unknown

<400> 2120 ctgaaatttc ggaaatgctg aagacatctt gnntttttgc tctggtggct ttaagcctct	60
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caaccttcga aatcagtcaa agaggtattg tctcagatgt tttgcaggag ttggtataca      180
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agatgcattg atgagaccag ctttgtctaa agcaaagctt tccttggaac gacttgaaaa      420
ggctgtttca atggctattg atgatgctag acttaaattt gaaaatgcct ccaagaaatg      480
aatgacgacg cagtagcatt cttaattcat cctgaaaaat caagaggaac cgagagatca      540
aaacaaata                                         549

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<210> 2121
<211> 549
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (498)..(498)
<223> n = unknown

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<400> 2121
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tcggctatca ttttcagcgc actgggtgcc gcatatggaa cagccaagtc cggcactggg      180
atcgccgcta tgtccgtgat gagacctgaa ttgatcatga aatcaatcat tccagttggt      240
atggctggta tcattgctat ctacggcctg gttgttgcyg tactgattgc ggggtgctctg      300
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gaggaacacc caacaacctc gtctgttggt gaatgatctt gatcctgac ttcgtgaag      480
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attcaagat                                         549

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<210> 2122
<211> 549
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature

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&lt;223&gt; n = unknown

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (117)..(117)

&lt;223&gt; n = unknown

&lt;400&gt; 2122

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aatactggag acaattatta taacatgtaa tattcaattt ttaaatttnc atcaatngtt    120
ttttatgatc tcgtcttttg aagtattcat tcatttattc aatccaatgc caaatcataa    180
at ttatttggg atttaggtgc actactatat tgaattaata agataaaciaa cttagttatg    240
aaatattttca attaaatcca tgtatgggtt gtaatgtgca tatatatata gtcaccgtac    300
tagatttttta ttagtttaag aaaatttaat ataaataact atgtaagaaa tttttcaaaa    360
aatttaatat aaatgacttt ataaaatata tatcaaaaat agtcataaaa agtttgtgca    420
attataaaaa tttatacaga aattataaat ttggagagaa aaatatgcac atatgtaata    480
gaaatatttt atcatgtgct aaatagatgc aatgaaaata tttatcaaga aatatttgcc    540
atttaaaca                                         549

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&lt;210&gt; 2123

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (4)..(4)

&lt;223&gt; n = unknown

&lt;400&gt; 2123

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taantttata gggttataaa tattcattaa tataaaaatg ttataattta tttataaata      60
aattaaaatt tagtagattt taaatttttt ataaaaataa tttttaaaat tataaaaaat    120
atgaaataat gattaaatta gtataatata atttattgat aatattaaat tgtagggttt    180
atttaaggaa ttcggcaaat ataattttca cctgttttaac aaaaacatgt ctttttgaaa    240
ataatataaa gtctaactctg ccattgaag atttaaaagg ccgcagtaat ttgactgtgc    300
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attaaaggac gagaagaccc tttaaagttt atatataaat atagattaat ttaagaattt    480
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aacataata

549

<210> 2124  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (40)..(40)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (508)..(508)  
 <223> n = unknown

<400> 2124  
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 taatttatta tatttaaata tttatattaa tttattaaat atagatattt taaatataaa 180  
 atatttttag ggataagctt aaaaataaat tattataaat taataaatta ttataaatt 240  
 tatagggtta taaatattca ttaatataaa aatgttataa tttatttata aataaattaa 300  
 aatttagtag attttaaatt ttttataaaa ataatatatta aaattataaa aaatatgaaa 360  
 taatgattaa attagtataa tataatttat tgataatatt aaattgtag gttatttaag 420  
 gaattcggca aatataatat tccctgttaa caaaaacatg cttttgaaat aattaaagtc 480  
 tatctgccat gaagattaaa aggcgcanaa tttgctggca aggagcatat catagtttta 540  
 atggaagct 549

<210> 2125  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (513)..(513)  
 <223> n = unknown

<400> 2125  
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 actttttcaa gatgatgccc gcacttgag acccagtggc tttcgccaag gatttcgccg 120  
 caggtggtat ttctgcccga gtctctaaga ctgtggtagc acccatcgaa cgtgtcaaat 180

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tgctcctgca agtacaacac atttccaaac aaattgctga ggataaacgt tacaaaggta	240
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acttggccaa tgtcattcgt tatttcccaa ctcaggcttt gaacttcgca ttcaaagaca	360
agtacaagca agttttcttg ggtggagttg acaagaagac ccaattcttg cgttacttcg	420
caggaaactt ggcattctgt ggtgctgctg gagccacatc attgtgcttc gtctaccac	480
ttgatttcgc cgaccagatg gccgtgatga ggnaagcgt ggcaacgtga atcttggatg	540
gcactgttg	549

<210> 2126  
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 <212> DNA  
 <213> Ctenocephalides felis

<400> 2126	
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ttcaaaccgg ttttaagccag gttggtttct atccttaatt ttttaaaatt aattagtacg	180
aaaggaccat taatttataa taattatttt aatttgaata aaattaaaaa aaaaaaaaaa	240
aaaa	244

<210> 2127  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2127	
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aaattgggtgg tttattattt ttaaaattta cagtacacat caagcataat tttcaaaaat	120
ggtccaagaa accgaatgca aattaaatgg atcctcaaac cccgaggaaa ctaatgtgat	180
tcacggtcca gccgcgctg ccaacgaagg tttgaggggc tttggagagg aaatttatga	240
cagaatagtt ttacatggcg atagagtatc catgatcgac ggagacaccg atcgctccac	300
caccttcgac gcccttcggg cagcgagtgc agcaatcgct ctagccctaa gggctcgtgg	360
agtaccaaac aaagacgtca taactttggg agaactcacc acagaagact cttttgcatt	420
gttttgggga taattttctc aggagccact ttagggatgt tggatggagc ctgacagtcc	480
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ttgataagg	549

<210> 2128  
 <211> 515  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2128  
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 aatattatta aaggacgaga agacccttta aggttttata tataaatata gattaatttt 120  
 aagaatatta ttaaatttat ttatattaat atattttatt ggggtgatag gaaaatttat 180  
 aaaacttttt ttttattaaa acataaataa ttgaataatt gatccataaa ttatgattaa 240  
 aagattaagt tacttaaggg ataacagcgt aattatTTTT aagagaacat atcgcaaaat 300  
 agattgcgac ctcgatgttg gattaagata attttaaaat gcagaagttt taaaatttgg 360  
 tctgttcgac cattaattct tacatgatct gagttcaaac cggtttaagc cagggtggtt 420  
 ctatccttaa ttttttaaaa ttaattagta cgaaaggcca ttaatttata ataattattt 480  
 taattgaata aaataaaaaa aaaaaaaaaa aaaaa 515

<210> 2129  
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 <212> DNA  
 <213> Ctenocephalides felis

<400> 2129  
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 gacatctctg ctgaatatga gaacagcatt gcaagaatta gccaagatag caaaattgat 180  
 atgattgccg ctgaattcga aaaacaagga tttgcccttg aagtcgatag agatttggag 240  
 aggttcaaca aagaagttga aaggaaactt agcaaaaaag tgagtgaagc cgcaaaggaa 300  
 tgccttaaag gccaacacca aaaagctcta ggctacgcac aagaagcccg tgctaaggtc 360  
 aaggcttgca gagatgacaa acgtgatgaa ttcaaccaag ttcgccaaaa tggcttgccg 420  
 ctggagagaa gccagggaga acgccgaagc cctcagagca caagccaagg agtgcgttgt 480  
 gaccgagccg tgtcgatgaa gccagagttt gctgaaaggg ttctcaagct gccacgaagg 540  
 acaaaagac 549

<210> 2130  
 <211> 486  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2130

FC-8-C3.ST25.txt

caaaaagcta cataagctag aaccattaga ccacaaataa tatatcacta gacatttttta	60
ggaagttttac agttttgttat acaattctta aactaattta gttatcagta agttttaagc	120
agtcggcaca gtctttacgg acttgacta agttgtccct aaattctttc aaggctcccc	180
ttgcgcattt tccgacttca cggactaagt tgcccaattg ggaccagggt tctttgagtg	240
ccttggccaa gtcttttgct ccttcgtggg cagcttgagg aaccctttc aagcaaactc	300
tggtttcatc gacatcggct gcggtcacia cgcactcctt ggcttggtgt ctgagggctt	360
cggcgttctc cctggcttct ctccaggcgg caagccattt tggcgaactt ggttgaattc	420
atcacgtttg tcactctctgc aagccttgac cttagcacgg cttcttgtgc gtacctagac	480
ttttgg	486

<210> 2131  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

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cttgaagaca aaaagtgcct ttgtacaaaa acaaacagtg atattttaatt tatgaaatcg	180
ttataaacgt gtgtcgtatg atacttggat atttataaaa aaaagtgata cttgttagtc	240
agtttaaacc ctatatgcac aaagggatat aataagacat agttaaaatt attgcaaaaa	300
tggttgaag taacggtaca atgatggcaa tacgtgttgt tcgcagtaaa ctgaggaaac	360
gcgaagagca ctctaactct gttcatccag aggcgcccc aacaattacg gcggtgtgtac	420
cacctgctga gccagtggcg tacaggcaac aaccatctg gtgttccgcc gaaccgcgc	480
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cttccgtag	549

<210> 2132  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n = unknown

<400> 2132	
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FC-8-C3.ST25.txt

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gggtaaaattt attattttaat ttaatgtaat ataattattt aaaataataa attagtaatg	180
aatgttattt cgttttttaa gttatctagt ttttttagaa ataaatttaa tttattatat	240
ttaaatattt atattaattt attaaatata gatattttta atataaaaata ttttttaggga	300
taagcttaaa aataaattat tataaattaa taaattattt ataaatttat agggttataa	360
atattcatta atataaaaat gttataattt atttataaat aaattaaaat ttagtagatt	420
ttaaattttt tataaaaaata atatttataa ttataaaaaa tatgaaataa tgattaaatt	480
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<210> 2133  
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 <212> DNA  
 <213> Ctenocephalides felis

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tccaggtcga tgcaggcgcc gttggggaag cagacgacgt tctggcgcaa cttgacgcgg	180
cgctctacgt gaatcttgaa actggtggcc acccaacggt agagagactc agattcactt	240
tctgatactc cgaaggccaa aaatttatca gataattctt taggtatgtc gaggtcgctc	300
gggaccctaa gtccagtgtg acatctggct cttgttatag gatagaatcc caaaggaaat	360
ttgctttcca taatgttgaa gccgcgggcc aactcgaaca gaaggaagta ggagcgttct	420
tcacgctttt ccaagccatc gtagatctcc ttgaacgatt taacaggcac gtatcaggat	480
gagcggttca ttatatgtac aggattgcgt cagcaggaca cctgccacgc cagaatgaac	540
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<210> 2134  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2134 ccagaccctg ctatatcggg tcgagtttgc aaaagagttt tatttaattt attgttgccg	60
cccgtgttaa attaagtaaa ctttttcaag atgatgccc cacttgcaga cccagtggct	120
ttcgccaagg atttcgccgc aggtggtatt tctgccgcag tctctaagac tgtggtagca	180

FC-8-C3.ST25.txt

cccatcgaac gtgtcaaatt gtccttgcaa gtacaacaca tttccaaaca aattgctgag	240
gataaacggtt acaaaggtat catcgattgc tttgtacgta tccctaagga gcagggcgta	300
ctttccttctt ggcggtggtaa cttggccaat gtcattcggtt atttcccaac tcaggttttg	360
aacttcgcat tcaaagacaa gtacaagcaa gttttcttgg gtggagttga caagaagacc	420
caattctggc gttacttcgc aggaaacttg catctggtgg tgctgctgga gccacatcat	480
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acgtgaatc	549

<210> 2135  
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 <212> DNA  
 <213> Ctenocephalides felis

<400> 2135	
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gtacaaccaa ttcctttggg cgaagaatat gtcgaaggag gtgaagaagc tcgtcttaca	180
ggatggggca gattaggagc tgatgaccct gcaccaaacg aattgcagga attgaatact	240
tttaccatca gccacaaaat ttgcaagaag gctcaccagc atgtggttta cccaagtcag	300
atatgtgcat ttgtagaaaa aggaaaagga gcttgcatgg gtgactccgg tgggccattg	360
gtcgtaaattg gagaacttca cgggggttgc tcttggggaa tcccctgcgc cctcggcaaa	420
cctgacgtct tcactagagt ctcacactat gccgaatgga tcaaggagaa gatcgccgtg	480
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<210> 2136  
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 <212> DNA  
 <213> Ctenocephalides felis

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aattcaaatac ttcaacctga tgaaaagaaa aaaatgacta aactgatata aagtttgcct	120
tcttctgttc aggctgctgc atatacggac acgttttgta tacgaaataa agagtctgat	180
aattatttga aagtttatta tgaaggatcc tggcagggtc atctttcacc tggcgatata	240
gcttatcaag gcacaaaatg gggtatcgaa aagccgacac cgactactat tttttttata	300
attagaagtt ttcgcttggg atggtacatc gacaataaat ataattataa atcgaaacac	360
gcgcatatc catgggtcag gtttgatgta aacatgaaac aaaattatgt atatttgcata	420

gtgatgataa gtatataaca gactacgaag gcagtatgac tttcgataca aaaccgctaa 480  
 tttttcgcag tggatttaca aatgtgtgat ataaagatct aataataatg tgatgcattg 540  
 actaaatga 549

<210> 2137  
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 <213> Ctenocephalides felis

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 gtttagcatat gtaatggaga attatgctac gctaaactag aaaaaggtaa agttaatcga 180  
 ggggtgcgcaa cgaaggatat ctgcgatggc aatactcttt gcaaaacttg tgtcgggtgct 240  
 acatgcaata ataaggattt cgagcgcccg tcatgtgcaa cggatgacgg aggagaaaaa 300  
 aaatgtgaag gatttgtgta catctatgtt aacggcactg aaacaaaaaa aggttgtttg 360  
 gtcgatttac ctgaagctga ttcgattaga aaagaatgcg aaaatgcaca tctgggtctt 420  
 gtctaaagtg caatagtaac ctatgtaata aaaatgatcc ctgaatgtgt aaaatgcaac 480  
 gaaaatgatg ccctgcacaa gcaacactgc tgcggaattg cagctaagtg cagtctgcag 540  
 ataacaaga 549

<210> 2138  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2138  
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 actcagggaa ttcaacaact tcttgccgct gagaaaaggg ctgctgaaaa agtctccgag 180  
 gccaggaaac gcaaagcacg cagactaaag caagctaagg aagaagctca agatgaaatt 240  
 gagaaatacc gtcaggaacg tgagaagcaa ttcaaagaat ttgaagcaaa gcatatgggc 300  
 tcacgggaag ggggttcagc tagaattgat gctgacactc gtgtcaaaat cgatcagatg 360  
 aacaaagctg tgtctgttca aaaggatccc gtgatgtatg aaattctgaa gttgggtctat 420  
 gacatcaaac cagaattaca caaaaattat cgcaaagaat aatttatatt attcagagct 480  
 ccagtgaaaa aatatatatt aataaagata tggtatatcc acattttgtt atgtgaaaaa 540

atccttatag

549

<210> 2139  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (517)..(517)  
 <223> n = unknown

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 aactaatgtc atttccatta ctgatgggtca aatcttcttg gaaactgaat tgttctacaa 180  
 ggggtattcga ccagccatca atgtaggttt atctgtatct cgtgtaggtt ctgctgcaca 240  
 aaccaaagcc atgaaacagg ttgccgggtc catgaaactg gaattagctc aatatcgtga 300  
 ggtggctgct tttgccaat tcggctcaga tcttgatgca gccacacaac aattgttaaa 360  
 cagaggtggt cgtttgactg aattattgaa gcaaggacaa tatgtcccaa tggctattga 420  
 agaacaagtt gcaattatct actgtggtgt ccgaggacac ttggacaaaa tggaccaaac 480  
 caagatcaca gcatttgaaa ggaattacgc tcacatnaac caaccatcat cctttgcaac 540  
 catgcca 547

<210> 2140  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2140  
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 cttgttaaac ttgcatatcc gctcaagttt agcgaagaca tccaaccgat catgatggcc 180  
 gaaaaggact atgaaccgcc agcaggaacc aaagcttatg tgtctggatg gggaagaaca 240  
 tcgttcggtg gccaattgtc taaaaatctg cgaggagtcg agttggaaat aatagatcta 300  
 ttcgattgtt tcctttccta cttggataaa gtaaacgtgt ccgaaaggca agtttgcgct 360  
 ggaatccccg ttgtaggtgg taaagattct tgcactggag actcgggtgg ccccttacca 420  
 tcgatggaat cttggcggaa ctgttcctat ggcggaagatt gcccaaagca gaatatcctg 480  
 gagtttattc aaatattgtg aatacagaga tggattgaag actataagag tgagtcataa 540

atgtattat 549

<210> 2141  
 <211> 544  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2141  
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 tatatatataa tatagattaa ttttaagaat attattaaat ttattttatat taatatattt 180  
 tattgggggtg ataggaaaat ttataaaact tttttttttat taaaacataa ataattgaat 240  
 aattgatcca taaattatga ttaaaagatt aagttactta agggataaca gcgtaattat 300  
 ttttaagaga acatatcgac aaaatagatt gcgacctcga tggttgatta agataatttt 360  
 aaaatgcaga agtttttaaaa tttggtctgt tcgaccatta attcttacat gatctgagtt 420  
 caaacgggtt aagccagggt gttctatcct taattttttta aaattaatta gtacgaaagg 480  
 ccattaattt ataataatta ttttaattgaa taaataaaaa aaaaaaaaaa aaaaaaaaaa 540  
 aaaa 544

<210> 2142  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2142  
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 gtttttttaat tgaaagctgg aatgaatgat tgaatgaaat attaaactgtc ttaataaaat 120  
 tgttatagaa tttaattttt atgttaaaaa gcgtaaatat tattaaagga cgagaagacc 180  
 ctttaaagtt ttatatataa atatagatta attttaagaa tattattaaa tttatttata 240  
 ttaatatatt ttattgggggt gataggaaaa ttataaaaac ttttttttta ttaaaacata 300  
 aataattgaa taattgatcc ataaattatg attaaaagat taagttactt aaggataac 360  
 agcgtaattha tttttaagag aacatatcgc aaaatagatt gcgacctcga tggttgatta 420  
 agataatttt aaaatgcaga agtttttaaaa tttggtctgt gccattaatt cttacatgat 480  
 ctgagttcaa accgggttaag ccagggtggt ctatccttaa ttttttaaat tatagtacga 540  
 aaggccata 549

<210> 2143

<211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n = unknown

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 ggtgggtattt ctgccgcagt ctctaagact gtggtagcac ccatcgaacg tgtcaaattg 180  
 ctctgcaag tacaacacat ttccaaacaa attgctgagg ataaacgtta caaaggatc 240  
 atcgattgct ttgtacgtat ccctaaggag cagggcgtagc tttccttctg gcgtggtaac 300  
 ttggccaatg tcattcggtta tttcccaact caggctttga acttcgcatt caaagacaag 360  
 tacaagcaag ttttcttggg tggagttgac aagaagacc aattctggcg ttacttcgca 420  
 ggaaacttgg catctggtgg tgctgtggag ccacatcatt gtgcttcgtc taccacttg 480  
 atttccccga ccagattgcc gtgtgtagta aaggcctggg aacgtgaatt tctggatggc 540  
 aactgttga 549

<210> 2144  
 <211> 530  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2144  
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 tatatatata tatagattaa ttttaagaat attattaaat ttattttatat taatatattt 180  
 tattgggggtg ataggaaaat ttataaaact ttttttttat taaaacataa ataattgaat 240  
 aattgatcca taaattatga ttaaaagatt aagttactta agggataaca gcgtaattat 300  
 ttttaagaga acatatcgac aaaatagatt gcgacctcga tgttggatta agataatttt 360  
 aaaatgcaga agtttttaaaa tttggctggt cgaccaataa ttcttacatg atctgagttc 420  
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attaattata ataattatattt aattgaataa aataaaaaaaaa aaaaaaaaaa 530

<210> 2145  
 <211> 504  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2145  
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 atttatatta atatattTTta ttgggggtgat agggaaaattt ataaaacttt ttttttatta 180  
 aacataaat aattgaataa ttgatccata aattatgatt aaaagattaa gttacttaag 240  
 ggataacagc gtaattatTTt ttaagagAAC atatcgacaa aatagattgc gacctcgatg 300  
 ttggattaag ataattTTTaa aatgcagaag ttttaaaatt tgggtctgttc gaccattaat 360  
 tcttacatga tctgagttca aaccggTTTta agccaggTTg gtttctatcc ttaattTTTTt 420  
 aaaattaatt agtcgaaagg ccattaattt ataataatta ttttaatttg aataaaatta 480  
 aaaaaaaaaa aaaaaaaaaa aaaa 504

<210> 2146  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2146  
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 tacgaccatc caatgcgcct catggaccaa catttcggaa tgggcctaaa tcgaaatgat 180  
 cttattacta atctgcgggc aactccatcc ctcttccgtg gcggttatta cagaccttgg 240  
 aggaatgaaa ttactgctga cgattcctcg tcgaccatcg ttgctgacaa agataaattc 300  
 caagtgcact tagacgttca gcaattcaaa ccaaaagaaa tcaccgtaaa aacaaaggac 360  
 aattgcgtaa ttgtggaagg caagcatgaa gaaaaacaag atgagcacgg atatatttcc 420  
 cgtcattttg ttgcgcgatat gtcttgccag aaatcacgat gctgccgatg tagtatctag 480  
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<210> 2147  
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 <212> DNA  
 <213> Ctenocephalides felis

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<400> 2147
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tgaatgattg aatgaaatat taactgtctt aataaaattg ttatagaatt taatttttat      180
gttaaaaagc gtaaataatta ttaaaggacg agaagaccct ttaaagtttt atatataaat      240
atagattaat tttaagaata ttattaaatt tatttatatt aatatatatt attgggggtga      300
taggaaaatt tataaaactt tttttttatt aaaacataaa taattgaata attgatccat      360
aaattatgat taaagatta agttcttaag ggataacagc gtaattatatt ttaagagaac      420
atatcgcaaa atagattgcg acctcgatgt tggattaaga taatttttaa atgcagaagt      480
ttaaaaatttg gctgtcgcca taatcttaca tgatctgagt caaccgggta agccaggtgg      540
tctatcctt                                     549

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<210> 2148
<211> 510
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222> (155)..(155)
<223> n = unknown

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<220>
<221> misc_feature
<222> (412)..(412)
<223> n = unknown

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<220>
<221> misc_feature
<222> (473)..(473)
<223> n = unknown

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<400> 2148
aatattaact gtcttaataa aattggtata gaatttaatt tttatgttaa aaagcgtaaa      60
tattattaaa ggacgagaag accctttaaa gttttatata taaatataga ttaatttttaa      120
gaatattatt aaattttatt atattaatat atttnattgg ggtgatagga aaatttataa      180
aacttttttt ttattaaaac ataaataatt gaataattga tccataaatt atgattaaaa      240
gattaagtta cttaagggat aacagcgtaa ttatttttaa gagaacatat cgcaaaatag      300
attgcgacct cgatgttgga ttaagataat tttaaaatgc agaagtttta aaatttggtc      360
tgccgccatt aattcttaca tgatctgagt tcaaaccggt ttaagccagg tnggttctat      420

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ccttaatttt ttaaaattaa ttagtacgaa aggccattaa ttataataat tantttaatt 480  
tgaataaatt aaaaaaaaaa aaaaaaaaaa 510

<210> 2149  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (512)..(512)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (524)..(524)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (533)..(533)  
<223> n = unknown

<400> 2149  
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atttaatgta atataattat ttaaaataat aaattagtaa tgaaatgtta ttcgttttta 180  
aagttatcta gtttttttag aaataaattt aatttattat atttaaatat ttatattaat 240  
ttattaaata tagatatttt aaatataaaa tatttttagg gataagctta aaaataaatt 300  
attataaatt aataaattat ttataaattt ataggggtat aaatattcat taatataaaa 360  
atgttataat ttatttataa ataaattaaa atttagtaga ttttaaattt ttataaaaaa 420  
taatatttaa aattataaaa aatatgaaat aatgattaaa ttagataata taatttattg 480  
taatattaaa tggtaggtta ttaaggattc gncaatatat attncctggt aanaaaactg 540  
cttttgaaa 549

<210> 2150  
<211> 299  
<212> DNA  
<213> Ctenocephalides felis

<400> 2150  
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cataaagtag tcaattaata taataaatac acaaatgatc tgtgcaatta aatataaaaa 120  
atatgtataa aaattaaaat gtataaaatt gtattttatg taaggagcac aaacaaaatg 180

tcattaacta tagtaatttc tgattattta aaatatataa atatagaagc tttatgaaat 240  
 tacatgtatc tttttaataa aaataaatcg tttgggccgt taaaaaaaaa aaaaaaaaaa 299

<210> 2151  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (515)..(515)  
 <223> n = unknown

<400> 2151  
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 taagtaaatt taatttattg tatcttgtgt atcagagtta atttaataaa agatatgaag 120  
 aatatTTTTc tcgaatttaa aagggtaaat ttattattta atttaatgta atataattat 180  
 ttaaaataat aaattagtaa tgaaatgta ttcgttttta aagttatcta gtttttttag 240  
 aaataaattt aatttattat atttaaatat ttatattaat ttattaaata tagatatttt 300  
 aaatataaaa tatTTTTagg gataagctta aaaataaatt attataaatt aataaattat 360  
 ttataaattt ataggggttat aaatattcat taatataaaa atgttataat ttatttataa 420  
 ataaattaaa atttagtaga tttaaatttt tataaaaaata atatttataaa tataaaaaat 480  
 atgaaataat gattaaatag ataataataat tatgntatat taaatggtag gttattaagg 540  
 atccgccaa 549

<210> 2152  
 <211> 546  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2152  
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 tgttatagaa ttttaatttt atgttaaaaa gcgtaaatat tattaagga cgagaagacc 120  
 ctttaaagtt ttatatataa atatagatta attttaagaa tattattaaa tttatttata 180  
 ttaatataatt ttattggggg gataggaaaa tttataaaac ttttttttta ttaaaacata 240  
 aataattgaa taattgatcc ataaattatg attaaaagat taagttctta agggataaca 300  
 gcgtaattat ttttaagaga acatatcgac aaaatagatt gcgacctga tgttggatta 360  
 agataatttt aaaatgcaga agtttttaaaa tttggtctgt tcgaccatta attcttcatg 420

## FC-8-C3.ST25.txt

atctgagttc aaaccgggta agccaggtgg ttctatcctt aattttttta aattaattag 480  
 tcgaaaggcc ttaattataa taattattta attgaataaa taaaaaaaaac aaaaaaaaaa 540  
 aaaaaa 546

<210> 2153  
 <211> 547  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2153  
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 tggtagatga catctctgct gaatatgaaa acagcattgc aagaattagc caagatagca 180  
 aaattgaaat gattgctgct gaattcgaaa aacaaggatt tgcccctgaa gtcgatagag 240  
 atttggaaaag gttcaacaaa gaagttgaaa ggaaacttag caaaaaagtg agtgaagccg 300  
 caaaggaatg ccttaaaggc caacaccaa aagctctagg ttttgacaaa gaagctcgtg 360  
 ctaaggtcaa ggcttgcagg gatgataaac gtgaggaatt caaccaagtt cgccaaaatg 420  
 gcttgccgct ggagagaagc cagggagaac gccgaagccc tcagagcaca agccaaggag 480  
 tgcgttgctc gcaccgtgtc gatgaaccag acttggtgaa agatgtcttc aagctgccgt 540  
 gaaggac 547

<210> 2154  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2154  
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 ataaagtcta atctgcccat tgaagattta aaaggccgca gtaatttgac tgtgcaaagg 180  
 tagcataatc aatagttttt taattgaaag ctggaatgaa tgattgaatg aaatattaac 240  
 tgtcttaata aaattgttat agaatttaat ttttatgtta aaaagcgtaa atattattaa 300  
 aggacgagaa gaccctttta agttttatat ataaatatag attaatTTTA agaatattat 360  
 taaatttatt tatattaata tttttatttg gggatgtagg aaaatttata aaactttttt 420  
 tttattaaaa cataaataat tgaataattg acctaaatta tgattaaaag ataagttact 480  
 taagggtaac acgtaattat ttttaagaga acatatcgca aaatagattg cgctcgtgt 540  
 ggtaagata 549

<210> 2155  
 <211> 547  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2155  
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 ccgtagacaa cagttttgta tgcaaatcta ttggatattt ccctgatctg gaagactgta 120  
 agaaattcca tttctgtatt ccaaatacag aagggtgtta agcttccaac agaagctttt 180  
 acctacattc tgaaattgaa aatatgtcca tagaagcaat caaaagtcag accagagttg 240  
 acaaaacaaa accacgcaa aaatctattg aacacacctg cgacagaggt tatggatacg 300  
 atcctatgac ggccatgtgc agcataaaat tggataatgg cgaatgtgcg aatagggata 360  
 aaatccaatg caaagctggt ggcgagtcta acgctctcag ccttggttcg agctacttct 420  
 acgtctgcat agagttgctg gaggatatgc aaatctcaag gcaacttgtc ctaggctata 480  
 taggtgcccc atgggtgaatt ttcttcaagg tcctgatcga acaagatgat gaagatgaag 540  
 ataattct 547

<210> 2156  
 <211> 549  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2156  
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 aggtttattt aaggaattcg gcaaataata tattcacctg tttaacaaaa acatgtcttt 120  
 ttgaaaataa tataaagtct aatctgcca ttgaagattt aaaaggccgc agtaatttga 180  
 ctgtgcaaag gtagcataat caatagtttt ttaattgaaa gctggaatga atgattgaat 240  
 gaaatattaa ctgtcttaat aaaattgtta tagaatttaa tttttatggt aaaaagcgta 300  
 aatattatta aaggacgaga agacccttta aagttttata tataaatata gattaatttt 360  
 aagaatatta ttaaatttat ttatattaat atattttatt ggggtgatag gaaaatttat 420  
 aaaacttttt ttttattaaa acataaataa ttgaataatt gaccataaat tatgattaaa 480  
 agattaagtt acttaaggga taacagcgaa tattttaaga gacatatcgc aaaatagatt 540  
 gcgcccgat 549

<210> 2157  
 <211> 271  
 <212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (18)..(18)

<223> n = unknown

<220>

<221> misc\_feature

<222> (22)..(22)

<223> n = unknown

<220>

<221> misc\_feature

<222> (28)..(28)

<223> n = unknown

<220>

<221> misc\_feature

<222> (42)..(42)

<223> n = unknown

<220>

<221> misc\_feature

<222> (246)..(246)

<223> n = unknown

<400> 2157

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aaggacgaga agacccttta aagttttata tataaatata gattaatttt aagaatatta 120

ttaaatttat ttatattaat atattttatt ggggtgatag gaaaatttat aaaacttttt 180

tttattaaaa cataaataat tgaataattg atccataaat tatgattaaa agattaagtt 240

acttangggg taacagcgta attattttta a 271

<210> 2158

<211> 481

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (234)..(234)

<223> n = unknown

<220>

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<222> (286)..(286)

<223> n = unknown

<220>

<221> misc\_feature

<222> (318)..(318)

<223> n = unknown

<220>

<221> misc\_feature

<222> (355)..(355)

<223> n = unknown

<220>

<221> misc\_feature

<222> (361)..(361)

<223> n = unknown

<220>

<221> misc\_feature

<222> (365)..(365)

<223> n = unknown

<220>

<221> misc\_feature

<222> (423)..(423)

<223> n = unknown

<220>

<221> misc\_feature

<222> (440)..(440)

<223> n = unknown

<400> 2158

aacttcatgt actataatat tatatttgta ttatatgtat tataaattca tacatgcaca 60

cacacacata tgtatatata tatatatata tatatatata tatatagttc aaaaataata 120

gcagctaatt attcaaccaa catgataata taactgttac ggattcttca caattattca 180

atattgaata attcagaata tatatatata tatatatata tatatatata tatncatgtg 240

tacgaacatg tatatgtgta tatatatata tatatatata tatttntata tatatatatg 300

tatatcgca catgtgtntg tacatgtata taggtataga tgtttttttt gacanacata 360

ntgtntatta gtatatatat aaactatagt ataaaaatat aaatgagtggt ttcatttact 420

ttntgcacac ctgactcatn gaatcttgct ttctaagaca taaaatagaa taattaaaat 480

t 481

<210> 2159

<211> 546

<212> DNA

<213> Ctenocephalides felis

<400> 2159

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tccgcataaa ttacaaaatg tcttcatcag ttctaccaga agaaaatcca atctatggac 120

ctttcttttg agtcatgggc gcagcgtcgg ctatcatttt cagcgcactg ggtgccgcat 180

FC-8-C3.ST25.txt

atggaacagc caagtccggc actggtatcg ccgctatgtc cgtgatgaga cctgaattga	240
tcatgaaatc gatcattcca gttgttatgg ctggtatcat tgctatctac ggcctgggtg	300
ttgcggtact gattgcgggt gctctggagg aacaaaaaac ctactcactt tataagggct	360
tcatacatct cggcgctggt ttggccgtag gattttccgg cttgcggcgg gttttgcgat	420
tggaatcggt ggtgatgctg gactacgagg aacacccaac aacctcgtct gtttgtggaa	480
tgatcttgat cctgatcttc ctgaagattg ggtctatatg gcttatcgta ccatctacct	540
tacacc	546

<210> 2160  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2160	
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aatgattgaa tgaaatatta actgtcttaa taaaattggt atagaattta atttttatgt	120
taaaaagcgt aaatattatt aaaggacgag aagacccttt aaagttttat atataaatat	180
agattaattt taagaatatt attaaattta ttatatttaa tatattttat tggggtgata	240
ggaaaattta taaaactttt tttttattaa aacataaata attgaataat tgatccataa	300
attatgatta aaagattaag ttacttaagg gataacagcg taattatttt taagagaaca	360
tatcgacaaa atagattgcg acctcgatgt tggattaaga taatttttaa atgcagaagt	420
tttaaaattt ggtctgtcgc cattaattct tcatgatctg agttcaaacc ggttaagcca	480
ggtggttcta tccttaattt ttaaaattaa ttagtacgaa agaccataat tataataata	540
tttaattgga	550

<210> 2161  
 <211> 541  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2161	
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aggtaaggc ttgcagggat gataaacgtg aggaattcaa ccaagttcgc caaatggct	120
tggccgcctg gagagaagcc agggagaacg ccgaagccct cagagcacia gccaggagt	180
gcgttggttac cgcagccgat gtcgatgaag ccagagcttg cttgaaagat gtccttcaag	240
ctgcccgtga aggagccaag gacttgcca aggccttcaa agaaacctgg tcccaattgg	300
gcaacttggt tcgtgaagtc ggcaaatgcg caagaggagc cgtgaaggaa ttcagagata	360

FC-8-C3.ST25.txt

acttggtaca agtccgtaaa gactgtgctg actgcttaaa acttactgac aactaaatta	420
gttttaggaat ttataacaa actgtaattt gcttaaattt gctttatgat cagctagttg	480
tatattattt gaatttgatg gtttagtttt tatgtacatt ttgcaaataa aattggtatg	540
a	541

<210> 2162  
 <211> 518  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2162	
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atattattttt aaaatgtgca cagatttgct gagagttttg tctattcaga gtcattgtagt	120
gtcaggatat gttggaaata aaagtgcac ttttctctg caagtattag gatttgaagt	180
ggatactatc aattccgtgc agttttctaa tcatactgga tataaacatg tacgagggca	240
agttctaacg gacaaggaat taggagagct ggcagaaggg ttagcattga atggtatcaa	300
tgtctacagt cacttattaa cgggttatgt agctaacca gattttctta aaacaattgc	360
aaacgtcgtt aaggaattga gagaaaaaaa tccaaaattg acatacgttt gcgatccagt	420
gttaggtgat aatggaaaaa tgtatgttcc agaatcatta ttaccaattt atagagaatt	480
aattattcca tggctgatat tgtactccaa tcaattga	518

<210> 2163  
 <211> 537  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (507)..(507)  
 <223> n = unknown

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tgaaggactg gagaatggcg ataacacggt caaattgtct ttcttcgtca agacacttcc	120
acgatataat gaaaacagat taagacaaat tcatcaacat ggtgttttca gaaaggaaac	180
tatgatgtac taccttttgc taccaatgct caaaggcgat aatggacca cagcctggcg	240
tccaaaatgc ttctcgtcc gcaacgacat agtcgttttg caagatttat ccatgtataa	300
ttttcgccat tcgtacccaa aattctcttt ggatcttgat catgttaaag ttgctttaac	360



FC-8-C3.ST25.txt

ggcattggct cgtatgcatg caagttgcat tatctacgag aagaaaaaaaa attgttgcac 420  
 ggggagaggtt tacaaagatc ttatgttcga gactatggcc aataataatc aatggtggag 480  
 gactggagag gatctgctta gcaattntga ggaatctgag aatcgtaaata atccgat 537

<210> 2164  
 <211> 546  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> n = unknown

<220>  
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 <222> (42)..(42)  
 <223> n = unknown

<220>  
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 <222> (411)..(411)  
 <223> n = unknown

<220>  
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 <222> (430)..(430)  
 <223> n = unknown

<220>  
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 <222> (512)..(512)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (519)..(519)  
 <223> n = unknown

<400> 2164  
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 tctcctaaaa tgaggatcta caaagacatc attactgggtg atgagatggt ctacagacaca 120  
 tataaaataa agttggtcga tgaagttttg tacgaagtga ccggcaaatt ggtttcaagg 180  
 tctcaagggg atatccaaat tgaaggtttc aaccatctg ctgaagaggc tgatgaagga 240  
 actgaaacag ccacggaatc tgggtgtgat gtggtcttaa atcaccgctt tgtgaaactt 300  
 ttgccttctc agataaaaaa tcatacactc tttattttaa agattatatg aaaaaattgg 360  
 tggcgaaatt agaggagaaa tcaccagaac aagttgaggt attcaaaaca natatgaaca 420  
 aagtcatgan agaaatatta agccgtttta agaatgcaaa tgtcactggg gaatcaatgg 480

ttgtgatggc atggttgctt tatggaattc gngaaatant ggtgaattgt ccatttgatg 540  
tcttaa 546

<210> 2165  
<211> 537  
<212> DNA  
<213> Ctenocephalides felis

<400> 2165  
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ccaatgagca tcaattccca tggcaagtat cctccaaag atttggaagt cacttctgcg 120  
gtggttccat catcaattct gaatgggttc tcaactgctgc tcattgcac agtggcactt 180  
ccggatttga tgccgtagta ggaaaacacg atctttcaaa aactgaagct actgaacagc 240  
gatctgcctt caagagaact attgtgcaca aatcttatgc tggaggcgtc aatccttatg 300  
acatcgcttt gatccaagtt gccacaccat tcaagctgat cgaaaacggt aaagctgtta 360  
agcttcaact aaagatgagg ctcaactcagg acaagttaca ttgctggatg gggatctact 420  
tctacttcag cttccccagc tccctaataa actacagact gttgacaaac caattgtcca 480  
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<210> 2166  
<211> 534  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (34)..(34)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (56)..(56)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (91)..(91)  
<223> n = unknown

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ttttatgtta aaaagcgtaa atattattaa nggacgagaa gaccctttaa agttttatat 120  
ataaatatag attaatttta agaatattat taaatttatt tatattaata tattttattg 180

FC-8-C3.ST25.txt

gggtgatagg	aaaatttata	aaactttttt	tttattaaaa	cataaataat	tgaataattg	240
atccataaat	tatgattaaa	agattaagtt	acttaaggga	taacagcgta	attattttta	300
agagaacata	tcgacaaaat	agattgcgac	ctcgatgttg	gattaagata	attttaaaaat	360
gcagaagttt	taaaatttgg	tctgttcgac	cattaattct	tacatgatct	gagttcaaac	420
cggttaagcc	aggttggttc	tatccttaat	tttttaaaaat	taattagtac	gaaaggccat	480
taattttataa	taattattta	atttgaataa	aattaaaaaa	aaaaaaaaaa	aaaa	534

<210> 2167  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2167	
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ttttacgtga	aagactttga
ggagtgattg	tttatcagca
60	
accaacagaa	aatgggggtcc
gagatgaaaa	gtacatgcta
caaagtcaat	cgcgtaggac
120	
actttgccag	agaatgcacc
caaggaggcg	gaggtatggg
aggtggccgg	gaccgcgatg
180	
gcggtcacag	ggactcgggc
cgcggtcggtg	agaaatgcta
caagtgtaat	agatttggcc
240	
actttgccag	agactgcaag
gaggaggctg	accgatgcta
cagatgcaat	ggcactggac
300	
acattgctcg	cgcttgctcg
caaagcccag	atgagccatc
ctgttacaac	tgtaacaagc
360	
caggacacat	tgcgaggaat
tgtcctgaga	gcggtgggtta
tgactctcag	agtaggtcca
420	
accaagcgtg	ttacaactgc
agcaaaaactg	gtcatatatc
cgtactgcca	gaaaaatgcta
480	
aacttgatatg	ttgtggaaag
ctgtcacata	accgtgatgg
atcaaatgac	cacactagtc
540	
aatatatcta	
550	

<210> 2168  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2168	
aaagtgtccg	gtgctgtgtg
gataaaaattt	attaaattta
ttaataaatt	attaataaat
60	
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aattttacagt	acacatcaag
cataattttc	aaaaatggtc
120	
caagaaaccg	aatgcaaatt
aaatggatcc	tcaaaccctg
aggaaactaa	tgtgattcac
180	
ggtccagccg	cgcttgccaa
cgaagggttg	aggggctttg
gagaggaaat	ttatgacaga
240	
atagttttac	atggcgatag
agtatccatg	atcgacggag
acaccgatcg	ctccaccacc
300	
ttcgacgccc	ttcgggcacg
cagtgcagca	atcgctctag
ccctaagggc	tcgtggagtg
360	
accaacaaag	acgtcataac
tttggtagaa	ctcaccacag
aagactcttt	tgcattgttt
420	

tggggataat tttctcagga gccacttttag ggatggttga tggagcctga cagtcccaaa 480  
 cactgctagt ccctctcctt tatataacca agggttctgt tacacatgtc cagtgttga 540  
 taggcaagaa 550

<210> 2169  
 <211> 546  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (450)..(450)  
 <223> n = unknown

<400> 2169  
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 gtcttagata agatggtaga tgacatctct gctgaatatg agaacagcat tgcaagaatt 180  
 agccaagata gcaaaattga tatgattgcc gctgaattcg aaaaacaagg atttgcccct 240  
 gaagtcgata gagatttgga gaggttcaac aaagaagttg aaaggaaact tagcaaaaaa 300  
 gtgagtgaag ccgcaaagga atgccttaaa ggccaacacc aaaaagctct agctacgcac 360  
 aagaagcccg tgctaaggtc aaggcttgca gagatgacaa acgtgatgaa ttcaaccaag 420  
 ttgcgcaaat ggctggccgc tggagagaan caggggagaac ccgaacccta gacacaacca 480  
 aggatgcgtt gtgacgcagc catgtcatga agcagagttg cttgaaaggg ttctccaact 540  
 gccacg 546

<210> 2170  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2170  
 tagatttcca catgcatccc tcgtacaata agagggcgga ttatgatttt gacgttgctg 60  
 tactagaact tgaaaaacca gtctcatata cggtttgtac agtagtatca gtagatttag 120  
 ccgaaagtgg aactgaagtt aaacctggag caatacttag tgtcactgga tggggtgcaa 180  
 ctaaggaagg tgggtggcgga actttgcaac tacaaggtgt gaaagttcca gctatctctc 240  
 ccaaagattg tgctaaggga tatccacctt ctggaggtaa agacaaaatt acagacagca 300  
 tgttatgtgc tgggtcttct gaaggaggta aagattcctg ccaaggcgac agtggcggtc 360

## FC-8-C3.ST25.txt

cactggtaga tgaaaataga aagcaagtag gagtgggttc ttgggggtcaa ggatgtgcca 420  
gaccaggaaa accaggaatt tatgctaaag tgtcacaccc cgaaatcagg aaatattattg 480  
aaaaatatgc taatgttaag tggattcatt tcaatataat gtgattaaga tctcttatgt 540  
atgattgaat 550

<210> 2171  
<211> 550  
<212> DNA  
<213> Ctenocephalides felis

<400> 2171  
ctcatcttac aagataaagg atggattaga tgggcgcatt gttggaggac aagatgctga 60  
tattgccaaa tatggctatc aagcttcact ccaagtattt aacgaacatt tctgtggagc 120  
ttcaatattg aataattatt ggattgtcac agcagctcat tgcatatatg atgaattcac 180  
gtattcagtt cgagtcggca ccagtttcca aggaagacgt ggttcogttc atcctgtggc 240  
acaaattatc aagcatcctg catacggtaa tgtaactgac atcgatatgg atgtcgccct 300  
catcaagggt cgaagaccat tccggttgaa taacagaact gttagaacag tcaaacttac 360  
tgatgttgga aaagacatgc catcaggaga attagccact gttactggct ggggaaattt 420  
aggggaagat gaagacgacc ccgacaactg caatatgtaa aggtcctatt gtaactgact 480  
cagtgcaaaa ctattatgga aatgaagact aataataccc aaaattgatt gtgctggtat 540  
cctgaagcgg 550

<210> 2172  
<211> 550  
<212> DNA  
<213> Ctenocephalides felis

<220>  
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<222> (4)..(4)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (522)..(522)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (536)..(536)  
<223> n = unknown

<400> 2172  
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atcatttttg tcttttcaaa ttgaatttga aaactaaaac tgcctctggg gttgaattca 180
cttcaggagg aacttctgaa catgaaactg gcaaggtatt tggatctttg gagacaaaat 240
acaaagtaag tgattacggg ctcaactttt ctgaaaaatg gaacacagac aatacttttag 300
ctacagaagt ttccatacaa gatcaaatag ctaaaggttt gaaagtatca ttcgactgct 360
ctttcgccacc acaaacggga agcaaaactg gtgttttgaa aactgcttct tacatgatag 420
tgtgcagtaa atgctgatgt aaatttgaat tatcaggacc tttgatcaat gccagccagt 480
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aagacacttg 550

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<210> 2173
<211> 496
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (433)..(433)
<223> n = unknown

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<220>
<221> misc_feature
<222> (475)..(475)
<223> n = unknown

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aattttattta tattaatata ttttattggg gtgataggaa aattttataaa actttttttt 180
tattaaaaca taaataattg aataattgat ccataaatta tgattaaaag attaagttac 240
ttaagggata acagcgtaatt tttttttaag agaacatatc gacaaaatag attgcgacct 300
cgatgttgga ttaagataat tttaaaatgc agaagtttta aaatttggtc tgttcgccat 360
taatcttaca tgatctgagt tcaaaccggg taagccaggg tggttctatc cttattttta 420
aaattaatta gtnccgaaagg ccattaatta taataattat ttttaattgga taaantaaaa 480
aaaaaaaaaa aaaaaa 496

```

```

<210> 2174
<211> 539
<212> DNA

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<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (29)..(29)

<223> n = unknown

<400> 2174

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cgtgttaaact taagtaaact ttttcaagat gatgcccgca cttgcagacc cagtggcttt      120
cgccaaggat ttcgccgcag gtggtatttc tgccgcagtc tctaagactg tggtagcacc      180
catcgaacgt gtcaaattgc tcttgcaagt acaacacatt tccaaacaaa ttgctgagga      240
taaacggttac aaaggatatca tcgattgctt tgtacgtatc cctaaggagc agggcgtact      300
ttccttctgg cgtggtaact tggccaatgt cattcgttat ttcccaactc aggctttgaa      360
cttcgcattc aaagacaagt acaagcaagt tttcttgggt ggagttgaca agaagaccca      420
attctggcgt tacttcgcag gaaacttggc atctggtggt gctgtggagc cacatattgt      480
gcttcgctac ccacttgatt tcgccgtacc agattggccg ctgatgtagg taaagcctg      539

```

<210> 2175

<211> 542

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (33)..(33)

<223> n = unknown

<400> 2175

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attatttaat ttaatgtaat ataattattt aaaataataa attagtaatg aaatgttatt      120
cgttttttaa gttatctagt ttttttagaa ataaatttaa tttattatat ttaaattatt      180
atattaattt attaaatata gatattttta atataaaata tttttaggga taagcttaaa      240
aataaattat tataaattaa taaattattt ataaatttat agggttataa atattcatta      300
atataaaaat gttataattt atttataaat aaattaaaat ttagtagatt ttaaattttt      360
tataaaaaata atattttaaaa ttataaaaaa tatgaaataa tgattaaatt agtataatat      420
aatttattga taatattaaa ttgtaggttt atttaaggaa ttcggcaaat ataattattc      480
ctgttaacaa aaacatgctt tttgaaaata atataaagtc taatctgcca tgaagattaa      540
aa                                                                                   542

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<210> 2176  
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 <212> DNA  
 <213> Ctenocephalides felis

<220>  
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 <222> (29)..(30)  
 <223> n = unknown

<400> 2176  
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 aagggtcaagg cttgcaggga tgataaacgt gaggaattca accaagttcg ccaaaatggc 120  
 ttggccgcct ggagagaagc cagggagAAC gccgaagccc tcagagcaca agccaaggag 180  
 tgcgttggtta cgcagccga tgcgatgaa gccagagctt gcttgaaaga tgccttcaa 240  
 gctgcccggtg aaggagccaa ggacttggcc aaggctttca aagaaacctg gtcccaattg 300  
 ggcaacttgg ttcgtgaagt cggcaaatgc gcaagaggag ccgtgaagga attcagagat 360  
 aacttgggtac aagtccgtaa agactgtgct gactgcttaa aacttactga caactaaatt 420  
 agtttaggaa ttttataaca aactgtaatt tgcttaaatt tgctttatga tcagctagtt 480  
 gtatatattt tgtaatttga tggtttaggt ttttatgtaa catttgacaa taaaaatggg 540

<210> 2177  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2177  
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 tcttgccatc attggcttta taggggctgc acaagccttt ttcgaacaag atgccgtctt 120  
 agataagatg gtagatgaca tctctgctga atatgagaac agcattgcaa gaattagcca 180  
 agatagcaaaa attgatatga ttgccgctga attcgaaaaa caaggatttg cccctgaagt 240  
 cgatagagat ttggagaggt tcaacaaaga agttgaaagg aaacttagca aaaaagttag 300  
 tgaagccgca aaggaatgcc ttaaaggcca acacaaaaa gctctaggct acgcacaaga 360  
 agcccgtgct aagggtcaagg cttgcagaga tgacaaacgt gatgaattca accaagttcg 420  
 caaaatggct tgccgctgga gagaagccag ggagaacgcc gaaccctcag agcacaagcc 480  
 aaggagtgcg ttgtgaccgc agccgtgtcg atgaaccaga gtttgctgaa aggggttctc 540  
 ca 542



<210> 2178  
 <211> 518  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (37)..(37)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (466)..(466)  
 <223> n = unknown

<400> 2178  
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 attattaaag gacgagaaga ccctttaaag ttttatatat aaatatagat taattttaag 120  
 aatattatta aattttattta tattaatata ttttattggg gtgataggaa aatttataaa 180  
 actttttttt tattaaaaca taaataattg aataattgat ccataaatta tgattaaaag 240  
 attaagttac ttaaggata acagcgtaat tatttttaag agaacatatc gacaaaatag 300  
 attgcgacct cgatgttgga ttaagataat tttaaaatgc agaagtttta aaatttggtc 360  
 tgttcgacca ttaattctta catgatctga gttcaaaccg gtttaagcca ggttggtttc 420  
 tatccttaat tttttaaaat taattagtac gaaaggccat taattnataa taattatttt 480  
 aatttgaata aaattaaaaa aaaaaaaaaa aaaaaaaaaa 518

<210> 2179  
 <211> 540  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown

<400> 2179  
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 gtggctttta gcctctttca aatttcaatt gccattccta ccatagaggc agaaccaatc 120  
 caaaatgcta ttccaacaac cttcgaaatc agtcaaagag gtattgtctc agatgttttg 180

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caggagttgg tatacaattt ggacgtttta gttaccgaag tttttgataa tgtagctaaa	240
gtaactacag acataaccac tggcctcggg aaagttttag ttgcactaac caaagaaata	300
gaagctgtta caaaaggaac cttgaatttg ataagtgaag caattagaat aaagtccgaa	360
cttttgctta gatttagaga tgcattgatg agaccagcct tgtctaaagc aaagctttcc	420
ttggaacgac ttgaaaaggc tgtttcaatg gctattgatg atgctagact taaatttgaa	480
aatgccatcc aagaaatgaa tgacgacgca gtaggcattc ttaattcctc actgaaaaat	540

<210> 2180  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2180	
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ttgccatcat tggcttttatt ggggctgccc aagccttctt cgatcaagat gccgtcttag	120
ataagatggg agatgacatc tctgctgaat atgaaaacag cattgcaaga attagccaag	180
atagcaaaat tgaaatgatt gctgctgaat tcgaaaaaca aggatttgcc cctgaagtgc	240
atagagattt ggaaagggtc aacaaagaag ttgaaaggaa acttagcaaa aaagtgaagt	300
aagccgcaaa ggaatgcctt aaaggccaac accaaaaagc tctaggtttt gcacaagaag	360
ctcgtgctaa ggtcaaggct tgcagggatg ataaacgtga ggaattcaac caagttcgca	420
aaatggcttg cccgctggag agaagccagg gagaacgccg aaccctcaga gcacaagcca	480
aggagtgcgt gtaccgcacc gtgtcgatga accagacttg ttgaagatgt cttcaagctg	540
cc	542

<210> 2181  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2181	
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aaaattgtta tagaatttaa tttttatggt aaaaagcgta aatattatta aaggacgaga	120
agacccttta aagttttata tataaatata gattaatttt aagaatatta ttaaatttat	180
ttatattaat atattttatt ggggtgatag gaaaatttat aaaacttttt ttttattaaa	240
acataaataa ttgaataatt gatccataaa ttatgattaa aagattaagt tacttaaggg	300
ataacagcgt aattattttt aagagaacat atcgacaaaa tagattgcga cctcgatggt	360

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ggattaagat aatttttaaaa tgcagaagtt ttaaaatttg gtctgttcga ccattaattc	420
ttacatgatac tgagttcaaa ccggttaagc cagggtgggtc tacccttaat ttttttaaaat	480
taattagtcg aaaggccatt aattttataat aattatttta atttgataaa attaaaaaaaa	540
aa	542

<210> 2182  
 <211> 540  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown

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tgctcataaa ggatttaata ttctccgtac agtagcttac aggtgagatc aattttaattc	120
aactcaactg gctatacatt ttattacaag atgcactccg taatcaattc cactttgcga	180
accctgagca aacagaatc gggtaaaatc gcatcgattt tatcgaacag caggagttat	240
gctgccaaag cagcagcagg tgcccaaggc aaagtgtgtg ccgttatcgg tgctgttgta	300
gatgtacaat tcgaagatag cttacctccc atcctaaatg ctcttgaagt atccaacaga	360
aagccaaggc tcgtccttga agtagccag catttaggag aaaataccgt ccgtacaatt	420
gctatggatg gtaccgaggg ttggtacgt ggtcaagggt ttgttgactg cggatcaccc	480
atcaggatcc cgtgggagct gagacattgg gcaggatcat gaacgtcatc ggagaccaat	540

<210> 2183  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2183	
attgtatctt gtgtatcaga gttaatttaa taaaagatat gaagaatatt tttctcgaat	60
ttaaaagggt aaattttatta tttaatttaa tgtaataata ttatttataa taataaatta	120
gtaatgaaat gttattcgtt tttaaagtta tctagttttt ttagaaataa atttaattta	180
ttatatattaa atattttatat taattttatta aatatagata ttttaaatat aaaatatatt	240
tagggataag cttaaaaata aattattata aattaataaa ttatttataa atttataggg	300
ttataaatat tcattaatat aaaaatgtta taattttatt ataaataaat taaaatttag	360
tagattttta attttttata aaaataatat ttaaaattat aaaaaatatg aaataatgat	420

taaattagta taatataatt tattgataat attaaattgt aggttattta aggaattcgc 480  
 aaatataata ttccctgtta acaaaaactg tcttttgaaa taatataaag tctaattctgc 540  
 ca 542

<210> 2184  
 <211> 539  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2184  
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 ttcttcgatc aagatgccgt cttagataag atggtagatg acatctctgc tgaatatgaa 120  
 aacagcattg caagaattag ccaagatagc aaaattgaaa tgattgctgc tgaattcgaa 180  
 aaacaaggat ttgccctga agtcgataga gatttgaaa ggttcaacaa agaagttgaa 240  
 aggaaactta gcaaaaaagt gagtgaagcc gcaaaggaat gccttaaagg ccaacaccaa 300  
 aaagctctag gttttgcaca agaagctcgt gctaaggctca aggcttgacg ggatgataaa 360  
 cgtgaggaat tcaaccaagt tcgccaaaat ggcttggccg ctggagagaa gccagggaga 420  
 acgccgaagc cctcagagca caagccaagg agtgcggtgt taccgcagcc gatgtcgatg 480  
 aaccagactt gcttgaaaga tgtccttcaa gctgccgtga aggaccaaga cttgccaaag 539

<210> 2185  
 <211> 540  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (30)..(30)  
 <223> n = unknown

<400> 2185  
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 tggggctgcc caagccttct tcgatcaaga tgccgtctta gataagatgg tagatgacat 120  
 ctctgctgaa tatgaaaaca gcattgcaag aattagccaa gatagcaaaa ttgaaatgat 180  
 tgctgctgaa ttcgaaaaac aaggatttgc ccctgaagtc gatagagatt tggaaagggt 240  
 caacaaagaa gttgaaagga aacttagcaa aaaagtgaat gaagccgcaa agaatgcct 300  
 taaaggccaa caccaaaaag ctctaggttt tgcacaagaa gctcgtgcta aggtcaaggc 360  
 ttgcagggat gataaacgtg aggaattcaa ccaagttcgc caaaatggct tgccgctgga 420

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gagaagccag ggagaacgcc gaagccctca gagcacaacc aaggatgcgt tgtaccgcac 480  
cgatgtcgat gaaccagact tgcttgaaag atgtccttca agctgccgtg aaggaccaag 540

<210> 2186  
<211> 497  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (31)..(31)  
<223> n = unknown

<400> 2186  
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acaggatcag agtgtgtttt aaaacgacaa ataaccaaag gagccaaaat gcctcaagaa 120  
cttaataaaa tctcggatga agagcgagag ggaaaattcg gctatgtata cgccgtttct 180  
ggtcctgtcg taacagctga acgtatgtca ggatcagcta tgtacgaatt ggtacgtgta 240  
ggatactatg aacttgtcgg agaaatcatt aggttgaag gtgatatggc tactattcag 300  
gtatatgaag aaacatcagg tgtaactgta ggtgaccctg ttctaagaac aggaaaacca 360  
ttgtccgtag aacttggacc aggtatcttg ggaagtatct ttgatgggat ccaacgtcca 420  
cttaaagata ttaatgagtt aactcaatcg atttacattc ccaaggggtg taatattcct 480  
gctctgcaaa aacacag 497

<210> 2187  
<211> 495  
<212> DNA  
<213> Ctenocephalides felis

<400> 2187  
ttgttataga atttaatttt tatgttaaaa agcgtaaata ttattaaagg acgagaagac 60  
cctttaaagt tttatatata aatatagatt aattttaaga atattattaa atttatttat 120  
attaatatat tttattgggg tgataggaaa atttataaaa cttttttttt attaaaacat 180  
aaataattga ataattgatc cataaattat gattaaaaga ttaagttact taagggataa 240  
cagcgtaatt atttttaaga gaacatatcg acaaaataga ttgcgacctc gatgttggat 300  
taagataatt ttaaaatgca gaagttttta aatttgggtc gttcgaccat taattcttac 360  
atgatctgag ttcaaaccgg tttaagccag gttggtttct atccttaatt ttttaaaatt 420  
aattagtacg aaaggccatt aatttataat aattatttta atttgaataa aataaaaaaa 480  
aaaaaaaaa aaaaa 495

<210> 2188  
 <211> 471  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2188  
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 gattaattttt aagaatatta ttaaatttat ttatattaat atattttatt ggggtgatag 120  
 gaaaatttat aaaacttttt ttttattaaa acataaataa ttgaataatt gatccataaa 180  
 ttatgattaa aagattaagt tacttaaggg ataacagcgt aattattttt aagagaacat 240  
 atcgacaaaa tagattgcga cctcgatggt ggattaagat aattttaaaa tgcagaagtt 300  
 ttaaaatttg gtctgttcga ccattaattc ttacatgatc tgagttcaaa ccggtttaag 360  
 ccagggtgggt ttctatcctt aattttttta aattaattag tacgaaaggc cattaattta 420  
 taataattat ttttaattga ataaaattaa aaaaaaaaaa aaaaaaaaaa a 471

<210> 2189  
 <211> 522  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (485)..(485)  
 <223> n = unknown

<400> 2189  
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 aatattatta aaggacgaga agacccttta aagttttata tataaatata gattaattttt 120  
 aagaatatta ttaaatttat ttatattaat atattttatt ggggtgatag gaaaatttat 180  
 aaaacttttt ttttattaaa acataaataa ttgaataatt gatccataaa ttatgattaa 240  
 aagattaagt tacttaaggg ataacagcgt aattattttt aagagaacat atcgacaaaa 300  
 tagattgcga cctcgatggt ggattaagat aattttaaaa tgcagaagtt ttaaaatttg 360  
 gtctgttcgc cattaattct tcatgatctg agttcaaacc ggtaagcca ggttggtttc 420  
 tctccttaat tttttaaaat taattagtcg aaaggccatt aatttataat aattattttta 480  
 atttnataaa attaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 522

<210> 2190  
 <211> 486  
 <212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (419)..(419)

<223> n = unknown

<400> 2190

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ctttattggg gctgccaag ccttcttcga tcaagatgcc gtcttagata agatggtaga      120
tgacatctct gctgaatatg aaaacagcat tgcaagaatt agccaagata gcaaaattga      180
aatgattgct gctgaattcg aaaaacaagg atttgcccct gaagtcgata gagatttgga      240
aaggttcaac aaagaagttg aaaggaaact tagcaaaaaa gtgagtgaag ccgcaaagga      300
atgccttaaa ggccaacacc aaaaagctct aggttttgca caagaagctc gtgctaaggt      360
caaggcttgc agggatgata aacgtgagga attcaaccaa gttcgccaaa atggcttgnc      420
gctggagaga accagggaga acgccgaagc cctcagagca caagccaagg agtgcgttgt      480
accgca                                           486
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<210> 2191

<211> 471

<212> DNA

<213> Ctenocephalides felis

<400> 2191

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ataaaaatgg gtttcatggt taatattgat ggtggctatc tggaaggcct gtgccgtggt      60
ttcaagtgcg gaattcttaa acaatccgat tatttaaadc ttgtgcaatg tgaaactctt      120
gaagatttga agctgcacct ggcaggtaca gattatggca cctttttatc aaatgagcct      180
tcccccttat ctgtgtctac cattgatgac aaattacgtg aaaaattggt tattgaattc      240
caacacatga gaaaccatgc tgtcgaacct ctgtccactt tcttggattt cataacctac      300
agttatatga ttgacaatat cattttgttg atcactggta cactccatca gagaccaatt      360
tctgaattga ttcccaaag ccaccactt ggaagtttcg aacaaatgga ggctattcat      420
gtagctgcac cctgcagag ttatacaatg ctgacttgtg gatccccact t              471
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<210> 2192

<211> 550

<212> DNA

<213> Ctenocephalides felis

<400> 2192

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gttgtagctc tagtttgcgt attagctaag gttgctatag ccaaagcatt ctctgtcgga      60
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FC-8-C3.ST25.txt

tgctctgtag atgcttcgca agaaatgttc actctaggaa tatgtaatat atttggcagt	120
ttcgtgaagt cgatcccaac ttgtggtgct ttcaccagat cagcagtcag caatgcaagt	180
ggtgttcgct ctccaatggc aggcttgtac tcagg tacta tgacgctttt agcgттаagt	240
tttctcactc catactttta ctatattccg agagcaactc tttcatcagt gttgatatgt	300
gctgttatgt tcatgtttga ttggcaaata gtgatgccaa tgtggcggac taataaattg	360
gacgtgttat ttatgggggtg tacatttgct gcacttttat ataaaggagt agaatttggc	420
ttaagtgtgg tgtaattctg actttatgtc ctttgctcta tttgtgggca aggccgaaat	480
taatcacata tctaagtggc acccgaagtc ttgaatatcg gtgtatccca gacacagtct	540
tacttcctcg	550

<210> 2193

<211> 550

<212> DNA

<213> Ctenocephalides felis

<400> 2193

gcgcgcctta cataaatagc gccaaattca catgtctcac ggatggcgtg aaaaaggaaa	60
catcttgtgc agcagattca tgttttcttt tatacaataa atataaagggt gtgcgggagt	120
atgggtgcat aataaaaatt acgcagagcc aaagaaaata ctgtttccgt catccagaat	180
tatgctttac ctgcgacacg aaaaactgta attcaatgaa actgatgaaa ctatgccgcg	240
aatgcctcac aaacggccaa ggcgagacg aacgttgac caccgacca gcagcactcg	300
ggaatcgatc ggtcacattg tgctacaccg attgtgccgc atatagagta ttcgatggtt	360
ctaattgtgcg ggggtgcttt ccagaaggga gcgtttgtac tcctggcagt tgcattcggt	420
gctccgagga tatgtgtaac gacgtaaaag ttcctgaatt tcgtcgaata tgtaacacca	480
atagcacaca tcagaaattg ctctgaagtc atgacgctgc atggcgtttg actctgagta	540
acctgtactg	550

<210> 2194

<211> 550

<212> DNA

<213> Ctenocephalides felis

<400> 2194

ggaaagcagc tgctgataaa taccaaataa agtttgtttg tgagaaaaag tatttgcata	60
atttggatta ttccactat atcagattac tcatttaaac catgtctctc gtaccattgt	120
tgtttcacga ctggtgggag gattacgacc acccaatgcg cctcatggac caacatttcg	180
gaatgggcct aaatcgaaat gatcttatta ctagtctacg ggcgactcct tccctcttcc	240



FC-8-C3.ST25.txt

gtggcggtta ttacagacct tggaggaatg aaattactgc tgacgattcc tcgtcgacca	300
tcgttgctga caaagataaa tttcaagtga ctttagacgt tcagcaattc aaacccaaaag	360
aatcacccgt aaaaacaaag gacaattgcg taatcgtgga aggcaaacac gaagaaaaaac	420
aagatgaaca cggatatatt tcccgtcatt tcgttcgacg atatgttttg ccagaaatca	480
cgatgccgcc gatgtagtat cgagtttgcc tcggatggag tattgcctac agcgcccaag	540
aaggccttca	550

<210> 2195  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2195	
gcataatcaa tagtttttta attgaaagct ggaatgaatg attgaatgaa atattaactg	60
tcttaataaaa attgttatag aatttaattt ttatgtttaa aagcgtaaatt attattaaag	120
gacgagaaga cccttttaaag ttttatatat aaatatagat taattttaag aatattatta	180
aattttattta tattaatata ttttattggg gtgataggaa aattttataaa actttttttt	240
tattaaaaca taaataattg aataattgat ccataaatta tgattaaaag attaagttac	300
ttaagggata acagcgtaat tattttttaag agaacatatc gacaaaatag attgcgacct	360
cgatgttgga ttaagataat tttaaaatgc agaagtttta aaatttggct gtcgccatta	420
attcttacat gatctgagtt caaaccggtt aagccaggtg gttctatcct taatttttaa	480
aattaattag tacgaaaggc cataattata ataattatta attggataaa ataaaaaaaa	540
aaaaaaaaaa	550

<210> 2196  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (487)..(487)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (516)..(516)  
 <223> n = unknown

<400> 2196	
gaatttaaaa gggtaaattt attatttaatt ttaatgtaat ataattattt aaaataataa	60

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attagtaatg aaatggttatt cgttttttaa gttatctagt ttttttagaa ataaatttaa 120
tttattatat ttaaataat ttt atattaat ttt attaaatata gatatttttaa atataaaata 180
tttttaggga taagcttaaa aataaattat tataaattaa taaattat ttt ataaatttat 240
agggttataa atattcatta atataaaaat gttataat ttt atttataaat aaattaaaat 300
ttagtagatt ttaaattttt tataaaaaata atatttaaaa ttataaaaaa tatgaaataa 360
tgattaaatt agtataatat aatttattga taatattaaa ttgtagggtt tatttaagga 420
attcggcaaa tataatat ttc cctgttaaca aaaacatgct tttgaaaata atataaagtc 480
taatctncca tgaagattaa aaggcgcagt aatttnctgt gcaaggacat aatcaatggt 540
tttaattgaa 550

```

```

<210> 2197
<211> 461
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 2197
gaaaaagtta tattcaataa ctataaagtt tatagagtaa ttgctgacaa cttcgaacaa 60
gttgagggttc tgaagaat ttt ggaaaaggac tctgatgcgt acaatttctg gacccatggt 120
ggagccccag gcaaaaatgt agacatcatg gtacccccac acaaacttga ggatttcgaa 180
agcacgatgc aataccatag aataaaccac agtgtaatga gcgatgacgt ccagaaagat 240
atcgacctag aagtttttgg tacaagtaga gaagcttaca gttggaccaa gtatcaagat 300
cttgaaacaa cctatgcatg gatggacagc ttagccaagg cacaccaggg aaaagtcact 360
gttctcacca ttggcaaaac ttttgaggga agagacatca agggagtcaa gatttcattc 420
ggactgcaaa ccaggcgtat tattgcgctg gatcacgccc g 461

```

```

<210> 2198
<211> 550
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (496)..(496)
<223> n = unknown

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<400> 2198
ctaaatattg tgaaataaat cattttcaaa atggtgtcca aagtgtttgt tgctcttgcc 60
atcattggct ttataggggc tgcacaagcc tttttcgaac aagatgccgt cttagataag 120

```

## FC-8-C3.ST25.txt

atggttagatg acatctctgc tgaatatgag aacagcattg caagaattag ccaagatagc	180
aaaattgata tgattgccgc tgaattcgaa aaacaaggat ttgcccctga agtcgataga	240
gatttggaga ggttcaacaa agaagttgaa aggaaactta gcaaaaaagt gagtgaagcc	300
gcaaaggaat gccttaaagg ccaacaccaa aaagctctag gctacgcaca agaagcccgt	360
gctaagggtca aggcttgag agatgacaaa cgtgatgaat tcaaccaagt tcgcaaaatg	420
gcttgccgct ggagagaagc cagggagAAC gccgaagccc tcagagcaca agccaaggag	480
tgcgttgtga ccgcancgtg tcgatgaacc agagtttgct gaaagggttc tcagctgccA	540
cgaaggacca	550

<210> 2199  
 <211> 377  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2199	
ccgcaaggta aaatcagtag tcaccttgga tggtgataaa ctgactcatg aacaaaaggg	60
tgataagccc accaaaatag tccgtgagtt tggaccaact gaaatgaaag cagttatgac	120
tgttgatgat gtggtctgca cgagaactta caaagcattg taatttcaac actacggttt	180
tctatttttg tccttaagtt atatgcatac tcgtatggaa tctgtatata atacagaact	240
aatttgacta attatgggtca ttgatagtga ttgctgcatt tgtttcatac ttgttaaagt	300
actgatttaa actttttttg tatttatcga aagatgaaat ataaacatta aaaaatttaa	360
aaaaaaaaaa aaaaaaa	377

<210> 2200  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2200	
ctaaatattg tgaaataaat cattttcaaa atgggtgtcca aagtgtttgt tgctcttgcc	60
atcattggct ttataggggc tgcacaagcc ttttcgaac aagatgccgt cttagataag	120
atggttagatg acatctctgc tgaatatgag aacagcattg caagaattag ccaagatagc	180
aaaattgata tgattgccgc tgaattcgaa aaacaaggat ttgcccctga agtcgataga	240
gatttggaga ggttcaacaa agaagttgaa aggaaactta gcaaaaaagt gagtgaagcc	300
gcaaaggaat gccttaaagg ccaacaccaa aaagctctag gctacgcaca agaagcccgt	360
gctaagggtca aggcttgag agatgacaaa cgtgatgaat tcaaccaagt tcgcaaaatg	420
gcttgccgct ggagagaagc cagggagAAC gccgaagccc tcagagcaca agccaaggag	480

tgcgttgtga ccgcaccgtg tcgatgaagc cagatttgct tgaaaggggt ctccagctgc 540  
cacgaaggac 550

<210> 2201  
<211> 168  
<212> DNA  
<213> Ctenocephalides felis

<400> 2201  
at ttgtgtta atggtttaaa attttgggta ttcacataat tttagaattg attcatgttg 60  
aatgtatgat gtaaaatttc cctttaattt aagaataata gttctttatt tgtttaattt 120  
caatgtagtt gatgaaataa attaaaaatg ataaaaaaaa aaaaaaaa 168

<210> 2202  
<211> 534  
<212> DNA  
<213> Ctenocephalides felis

<400> 2202  
cgctagt tta gtgaagt gag tgtgtgaaga tacttcaatc agattctttc ttggacctgt 60  
aaatactccg cataaattac aaaatgtctt catcagttct accagaagaa aatccaatct 120  
atggaccttt ctttggagtc atggggcgcag cgtcggctat cattttcagc gcaactgggtg 180  
ccgcatatgg aacagccaag tccggcactg gtatcgccgc tatgtccgtg atgagacctg 240  
aattgatcat gaaatcaatc attccagttg ttatggctgg tatcattgct atctacgggc 300  
tggttggtgc ggtactgatt gcgggtgctc tggaggaacc aaaaacctac tcaactttata 360  
agggcttcat acatctcggc gctggtttgg ccgtaggatt ttccggcttg cggcgggttt 420  
tgcgattgga atcgtgggta tgctggagta cgaggaacag cccaacacct cgtctgttgt 480  
ggaatgatct tgatcctgat cttecgctgaa gtattgggtc tatatggctt atcg 534

<210> 2203  
<211> 550  
<212> DNA  
<213> Ctenocephalides felis

<400> 2203  
atttcaatgg atttttcgta tctggaggaa gtgcaacaat atatgcatat ttaggagaat 60  
ttcataatcc taggcatcgc agcagggtta ttatgggagc gtcaagcatc ttccggatttg 120  
cgtgtcttgc attaccgacg gttgcatggg taattataaa tcagaaatgg tcattctata 180  
ttgacttttt gggatatata tacaagccct ggagggttgta tatggttgca tgtgggttgc 240  
catcactgct ttgttgtttt gctttgtgga aattaccaga aagtcccaaa tttttgatga 300

FC-8-C3.ST25.txt

atcaggaag aaacgaagaa gctcgtcaaa ttattgccaa aatgtataga attaatactg	360
gtaaaccaga aagtgaattc cccgtatcat caatcttaga tgaatatcca ggagtggatg	420
gtgaaaatca aataaaacaa agaaatcatt ttaagaact gatgggatca aactgctccg	480
tggtatgggt gacacatgaa aaaacactca ttgctgtctc tgcaattcgg aatttgcaca	540
ttaacggatg	550

<210> 2204  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2204	
caatgtcggg aggcttggat gttcttgccc tacgggaaga tgatgttacc aaaatgtag	60
ccgcatgcac ccatcttggc agcgaaaatg tgaacttcca gatggagcaa tatgtgtaca	120
aacgccgtgc tgatggagta catgtaatca acttacgtcg cacatgggag aagcttttgt	180
tggctgctcg tgctattgtt gctattgagc atccagctga tgtcttcggt atttcctcca	240
gacctcaagg acaacgtgca gtattgaagt tcgccaaacta tactggtgct actccaattg	300
ctggacgttt cactcctggg gccttcaacta atcagattca agctgcattc cgtgaaccac	360
gtttgctgat tggtactgat cctcactccg atcaccaacc catcactgag gcttcatatg	420
tgaacattcc tggtattgca ttcaccaaca ctgattctcc attgaaattt gtgatattgc	480
aattccatgc aacaccaagt ccaaccattc cgtggttgat gtggtggtgt gctagaaagc	540
ttgagattcg	550

<210> 2205  
 <211> 236  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2205	
agagaacata tcgacaaaat agattgcgac ctcgatgttg gattaagata attttaaaat	60
gcagaagttt taaaatttgg tctgttcgac cattaattct tacatgatct gagttcaaac	120
cggtttaagc caggttggtt tctatcctta attttttaaa attaatagtagt acgaaaggac	180
cattaattta taataattat ttaatttga ataaaattaa aaaaaaaaaa aaaaaa	236

<210> 2206  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

FC-8-C3.ST25.txt

<400> 2206  
gatatttact aaatattgtg aaataaatca ttttcaaaat ggtgtccaaa gtgtttgtcg 60  
ttcttgccat cattggcttt attggggctg cccaagcctt cttcgatcaa gatgccgtct 120  
tagataagat ggtagatgac atctctgctg aatatgaaaa cagcattgca agaattagcc 180  
aagatagcaa aattgaaatg attgctgctg aattcgaaaa acaaggattt gcccctgaag 240  
tcgatagaga tttggaaagg ttcaacaaag aagttgaaag gaaacttagc aaaaaagtga 300  
gtgaagccgc aaaggaatgc cttaaaggcc aacaccaaaa agctctaggt tttgcacaag 360  
aagctcgtgc taagggtcaag gcttgacagg atgataaacg tgaggaattc aaccaagttc 420  
gccaaaatgg cttgccgctg gagagaagcc agggagaacc cgaaccctca gagcacaacc 480  
aaggatgcgt tgtccgcacc gtgtcatgaa ccagacttgt tgaagatgtc ttcaagctgc 540  
cgtgaagacc 550

<210> 2207  
<211> 550  
<212> DNA  
<213> Ctenocephalides felis

<400> 2207  
ccagaccctg ctatatcggg tcgagtttgc aaaagagttt tatttaattt attggtgccg 60  
ccggtgttaa attaagtaaa ctttttcaag atgatgcccg cacttgcaga ccagtggtct 120  
ttcgccaagg atttcgccgc aggtggtatt tctgctgcag tctctaagac tgtgggtggca 180  
cccatcgaac gtgtcaaatt gtcctgcaa gtacaacaca tttccaaaca aattgctgag 240  
gataaacggtt acaaagggtat catcgattgc tttgtacgta tccctaagga gcagggcgta 300  
ctttccttct ggcgtggtaa cttggccaat gtcattcggt atttccaac tcaggccttg 360  
aacttcgcat tcaaagacaa gtacaagcaa gttttcttgg gtggagttga caagaagacc 420  
caattctggc gttacttcgc aggaaacttg gcatctggtg gtgctgctgg accacatatt 480  
gtgcttcgtc taccacttg attcgccgtc cagatggccg tgatgaggta aagcctggca 540  
acgtgaatct 550

<210> 2208  
<211> 541  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (514)..(514)  
<223> n = unknown

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<400> 2208
gcgaatttgc ccgtcttaca atattaaacg tgaattcggt ttgccgggtc gtagtaacca      60
atattaatata atggctcctc caccatacgc agacttggga aaacaagcta gggaggtatt      120
taacagtggc tatcattttg gtcttttcaa attgaatttg aaaactaaaa ctgcctcttg      180
ggttgaattc acttcaggag gaacttctga acatgaaact ggcaaggtat ttggatcttt      240
ggagacaaaa tacaaagtaa gtgattacgg tctcactttt tctgaaaaat ggaacacaga      300
caatacttta gctacagaag tttccataca agatcaaata gctaaagggt tgaaagtatc      360
attcgactgc tctttcgcac cacaacggg aagcaaaact ggtgttttga aaactgcttc      420
ttacatgata gtgttgcagt aaatgctgat gtaaatttga atttatcagg acctttgatc      480
aatgccagcg cagtattggt atcaagggtg tggncggtat aaactggttg cttgaaattc      540
a                                                                                   541

```

```

<210> 2209
<211> 550
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 2209
gcgatttcct ttttattccg gctaagtgag aaaacacaaa cacaaccaa atggacgcga      60
tcaagaagaa aatgcaagcg atgaagctgg aaaaggagaa cgcaatggac cgcgctctca      120
actgcgaaca ggaagctaag gatgccaaac tgcgcgctga gaaggccgag gaagaggccc      180
gttctctgca aaagaagatc caatcaattg agaacgatct tgaccaaact caggagtcac      240
tgatgcaagt caatggaaaa ctggaagaga aagacaaggc tcttcaaaat gccgaatctg      300
aagtcgctgc cttgaaccga cgcattcaac tcttgaaga agatttggaa cgttcagaag      360
aacgtcttgc caccgccacc gctaaattgg ctgaagctc acaggctgct gatgaatcag      420
aacgcgcccg taaggtgctt gagaaccgct cctcgcgagg aagagcgcat ggacgcactt      480
gagaaccaac ttaaagaacg cgattctgcg ctgaggaggc cgcaagaaat ccgatgagtt      540
gccgtaattg                                                                                   550

```

```

<210> 2210
<211> 545
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (511)..(511)

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&lt;223&gt; n = unknown

&lt;400&gt; 2210

```

ccgggtcgta gtaaccaatt taatataatg gctcctccac catacgcaga cttggggaaa      60
caagctaggg aggtatttaa cagtggctat cattttgggtc ttttcaaatt gaatttgaaa    120
actaaaactg cctctgggggt tgaattcact tcaggaggaa cttctgaaca tgaaactggc     180
aaggatattg gatctttgga gacaaaatac aaagtaagtg attacggtct cacttttttct    240
gaaaaatgga acacagacaa tacttttagct acagaagttt ccatacaaga tcaaatagct     300
aaaggtttga aagtatcatt cgactgctct ttcgcaccac aaacgggaag caaaactggt     360
gttttgaaaa ctgccttctt acatgatagt gttgcagtaa atgctgatgt aaatttgaat     420
ttatcaggac ctttgatcaa tgccagcgca gtagttggta tcaaggatgg ttggccgggt     480
ataaactgga tttgactctg aaattccaag ncacaaagac acttgccttg gatctcacag     540
agatt                                           545

```

&lt;210&gt; 2211

&lt;211&gt; 550

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2211

```

ctcgtgtgtc gcacattcgg tgccagtgtt ccagaatcat ggaaaagatt agatggtaga      60
atcgtaggag gacacgatac cagcatcgat aaacaccctc atcaagtatc tttattgtac    120
tccagccaca attgtggtgg ttccttgatt gccaaaaact gggttttgac tgcagctcat     180
tgcattggag ttaacaaata caatgtccgt gtaggaagtt ccatcgtaaa cagcgggtgg     240
atcttgcata aagttaaaaa ccattacaga catccaaaat acaacgcagc tgctattgac     300
tttgattacg cactcttaga actcgaaact cctgttcaac tcacaaatga tgtgtccatc     360
ataaaaattg tcgatgaagg agtagatctt aaacctggta ccttgttaac tgttactgga     420
tggggatcaa ctggaaatgg accttcaacc aatgttttgc aagaagttca agtaccacat     480
gtcgacccaa ccactttctc aatcttacct aggaagttga ctgatcgatg tctgcctggg     540
atttgacaa                                           550

```

&lt;210&gt; 2212

&lt;211&gt; 472

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2212

```

aaaaagcgta aatattatta aaggacgaga agacccttta aagttttata tataaatata      60

```



FC-8-C3.ST25.txt

gattaatttt aagaatatta ttaaatttat ttatattaat atatttttatt ggggtgatag	120
gaaaatttat aaaacttttt ttttattaaa acataaataa ttgaataatt gatccataaa	180
ttatgattaa aagattaagt tacttaaggg ataacagcgt aattattttt aagagaacat	240
atcgacaaaa tagattgcga cctcgatggt ggattaagat aatttttaaaa tgcagaagtt	300
ttaaaatttg gtctgttcga ccattaattc ttacatgatc tgagttcaaa cgggtttaag	360
ccaggttggt ttctatcctt aattttttta aattaattag tacgaaaggc cattaattta	420
taataattat ttttaattga ataaaattaa aaaaaaaaaa aaaaaaaaaa aa	472

<210> 2213  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (547)..(547)  
 <223> n = unknown

<400> 2213	
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gctggttaca ttgccggtgt attctgtgca gtagtttctc atcctgcaga cacagttggt	120
tccaagctaa atcaagacaa aggagcaaca gccattgacg ctgccaaaaa aacttggtt	180
tgctggttta tggaagggat taggacctag gatcatcatg attggtacat taaccgctgc	240
ccaatggttt atttatgatg ccgtcaaagt ctggttgctg atgccacgac caccaccacc	300
agagatgcc a gaatctctca agaagaaatt agctgcccc a cagtaaaaat agatctgtga	360
tgatcctctc aataatgcat gtatcagcaa tattacaatt gaaattgcaa ctaacatcta	420
aaatagcagt atcagtgatg gactattcaa ttagtaaca atgctgctaa ctggatcacg	480
ttttcattcc aaattttaat ttaaataaaa tagcaattat atagtataca attcttttac	540
aaatttngaa	550

<210> 2214  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2214	
attgtgaaat aaatcatttt caaaatgggtg tccaaagtgt ttgtcgttct tgccatcatt	60
ggctttattg gggctgcccc agccttcttc gatcaagatg ccgtcttaga taagatggta	120
gatgacatct ctgctgaata tgaaaacagc attgcaagaa ttagccaaga tagcaaaatt	180

```

gaaatgattg ctgctgaatt cgaaaaacaa ggatttgccc ctgaagtcga tagagatttg      240
gaaaggttca acaaagaagt tgaaaggaaa cttagcaaaa aagtgagtga agccgcaaag      300
gaatgcctta aaggccaaca ccaaaaagct ctaggttttg cacaagaagc tcgtgctaag      360
gtcaagggtt gcagggatga taaacgtgag gaattcaacc aagttcgcca aaatggcttg      420
ccgctggaga gaagccaggg agaaccgaa ccctcagagc acaagccaag gagtgcgttg      480
taccgcaccg tgtcgatgaa ccagacttgt tgaagatgtc cttcagctgc cgtgaaggac      540
ca                                                                           542

```

```

<210> 2215
<211> 221
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (177)..(177)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (180)..(180)
<223> n = unknown

```

```

<400> 2215
gttggattaa gataatttta aaatgcagaa gttttaaaat ttggtctggt cgaccattaa      60
ttcttacatg atctgagttc aaaccggttt aagccagggt gggtttctatc ctttaattttt      120
taaaattaat tagtacgaaa ggaccattaa ttataataa ttattttaat ttgaatnaan      180
ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a                                221

```

```

<210> 2216
<211> 381
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (33)..(33)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (179)..(179)
<223> n = unknown

```

```

<400> 2216

```

## FC-8-C3.ST25.txt

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attaagactt cctttatgat taagatttat atnattagga tgaattaata attataacca      60
tatatttagt catctagtgc ctcaaggaac tccaataatt ttaatacctt ttatagtttg      120
tattgaaaca attagaaata ttattcgacc tgggtacttta gccatccgac tctcagcana      180
tataattgct ggacatttaa ttctaacttt acttggcaat acaggaaact ccctatctat      240
atgattaatt tgaattttta ttttctctca attaatttta ttaatttttag aaattgctgt      300
atctattatt caatcttatg tatttgctgt tttaagaact ctttattcta gagaaattta      360
ctaaaaaaaa aaaaaaaaaa a                                              381

```

```

<210> 2217
<211> 287
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 2217
ctacattcca atattttaat taatttggtg ttaattttga taacgttgat tttatccaga      60
tgtttggtgt gtacaaagta tttatctcgg gccaaaccaa ttgtaacagt attttgaatt      120
tcattttatg atgaagccag accggatttg ggcgcacatg agtttctata tatataaaat      180
gaattaccga cataatatag cctaattatc ctcaatttag aaaatatcat tgttaactat      240
atttagaata tattatcttt ttgttggtata aaaaaaaaaa aaaaaaa                287

```

```

<210> 2218
<211> 550
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (517)..(517)
<223> n = unknown

```

```

<400> 2218
aaaacttcat ctctaaatg atggtcaatg ttacataaaa ttgtataaga tagtttggtg      60
taaattttac gacgctttga taatttatta ataaacatta attgatatca gagtagagtc      120
aaatcgatat ataattattat ttacctact tctctggaat acaaatttat taataaatat      180
cgatttcagt tacaagctga tcagtagtat attttctgtg gtcaaggatt gtcacatgt      240
caactaaaat aatattatta tccgcattgc tgttgcta atcttccact gccgtccagg      300
ccaagtatg cagttgtgta tgcatacaca tatgctgcac cccgaacag ctttcaaccc      360
tcgcctgtcc caagcgcagc agcagcagac ggctgctgc caaactcacc ctctaaaaa      420
taatgctgat gcttacctcg aatcatacag cacaaaatat tttaaactcag tacttacatc      480

```

acagcagtgc gacaatccaa agtcaggaca aaaattnttg gcacagcagc attgtaacca 540  
gcaccatcgt 550

<210> 2219  
<211> 226  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (162)..(162)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (193)..(193)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (202)..(202)  
<223> n = unknown

<400> 2219  
tagaatttaa tttttatggt aaaaagcgta aatattatta aaggacgaga agacccttta 60  
aagttttata tataaatata gattaatttt aagaatatta ttaaatttat ttatattaat 120  
atattttatt ggggtgatag gaaaatttat aaaacttttt tnttattaaa acataaataa 180  
ttgaataatt ganccataaa tnatgattaa aagattaagt tactta 226

<210> 2220  
<211> 550  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (34)..(34)  
<223> n = unknown

<400> 2220  
aagacaatca atcaaaattc ataaaaaagt tatnaaaagt tagaaaaatg gttacaaaag 60  
tagcactggt agttcttgct gttgctgtcg cccaagtttc ctgcgatgga ttaacatgga 120  
agtaccatcc atctctttca gcatttatgc tgaaaggtaa agacgaaatg ggtaaagatt 180  
gttcagctcc tggagaaata aagtgccagg attgtgagac agcaaaccctt tgcattgcga 240  
ttggtgctga tttcttagaa acaacattgg aaacatgtcc gagtggaatg acttgcaaac 300

FC-8-C3.ST25.txt

caggtacagg ttgcgttaga gcctctgaaa atacattaaa ctgtcctgat caaactcctc	360
ccgtagacaa cagttttgta tgcgaatcta ttgggtatttt ccctgatctg gaagactgta	420
agaaattcat ttctgtttcc aaatacagaa gggttaaagc ttcaacagaa cttttcctac	480
attctgaaat tgaaatatgt catagaacaa tcaaaagcag accagagtgc aacaaacccg	540
ccaaaattat	550

<210> 2221  
 <211> 550  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (489)..(489)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (539)..(539)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (544)..(544)  
 <223> n = unknown

<400> 2221	
aagatttgat attagtttta ttggatttgc agntgaaagt ttatttatca caatggttga	60
tacatatttg aacaaaaaat ataagctcag ttcgagtga aattttgatg attatatgaa	120
gaaattgggt gtcagtctag tcacccgtaa attgggcaac caagtgagcc cagtggtaga	180
gctgactaag aatggagata cctatacctt gtcatccact agcaccttca aaaattccat	240
catcacattc aaacttggtg aagaatttga tgaagagact cctgatggcc gcaaggtaaa	300
atcggtagtc accttggatg gtgataaact gactcatgaa caaaaggag ataagcccac	360
caaaatagtc cgtgagtttg gaccaactga aatgaaagca gttatgactg gtgatgatgt	420
ggctgccgag aacttacaaa gcattgtatt tcaacactcc ggtttctatt ttgtcttagt	480
tatatgcanc tcgatggatc tggatatatac agaactaatt gctaatatgg cattgtagn	540
atgntgattg	550

```

<210> 2222
<211> 498
<212> DNA
<213> Ctenocephalides felis

<400> 2222
ttgtcagcgt ttgtcgttcc cgagtgctag attagggttat ttaggattgt tggccgatat 60
tccatcatct gggtaggcta aaatcaagga tcggaagac gatcgagacg aacaaccata 120
caaaaatatt ttttagaaca aaatcaataa aaatttcaaa atgttatctc ggattctaaa 180
acctctttta aatggatcta ctagagcggt ttcgactaca aacaagaata atgtcaaggt 240
tgcggttttg ggagccgctg gtggaattgg gcaaccctt agtcttttat tgaaacagtc 300
ccctttgatc agtcgcctga atttgtatga tacccttga acgattggtg tggcagctga 360
cttaagtcac attgaaacac ctgccaaagt atgtgggttac aatggcaaga agtttttgtg 420
caaggcttta gaaggagtgg atgtagtcgt cataccagca ggcagccctc gtaaaccctgg 480
tatgactcgt gatgattt 498

<210> 2223
<211> 375
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (191)..(191)
<223> n = unknown

<220>
<221> misc_feature
<222> (367)..(367)
<223> n = unknown

<400> 2223
agcgaatata ttttgggtgt gaaatgaaat tattattatt ataatttttg ataaatttga 60
attgggaaat tcttgaaaaa atcaaaaaag aattacaaaa ttaatatata gaagatgaac 120
ttaaatatag taatttgaaa ataaatatga aattaagggt gtaaaatata attgtcacag 180
ttgggttagt nttaatttaa tgaaaagata aattggttat taccagtgtg cgccaaattt 240
taaaaaaaaaa cttatgaaaa tatcaatgta tgaaagatga aataaatgaa cacaataatt 300
tcatgtgtat gtaacaagt tcaataataa taaagttgaa tacatgtcaa aaaaaaaaaa 360
aaaaaanaaa aaaaa 375

<210> 2224
<211> 500

```

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2224

```

gcataatctaa aaagtttaca aattttattc aacaatattt ttaaatacatc ttaagaacat      60
ttcgttaagaa aatatcaata tgctaataata acacacacaa gtaataactta gtttgatcat      120
atctgtaaat aacatgtgta tcatataaaa tatttgatta aacctgcatc ttcactgttt      180
cttctgcttg ctgctccatt ctaaaaagct accttcgtag tatcttgact tcttgtaaca      240
caatcccaat gctgtttcca tagcttcctt tgctcgtttt ccggaacggc aactaaaaat      300
gatttcagta tcgaatgttg gtttatctct tccgaatttg gttttgaatt cttcaggaga      360
catgttcttg agagcatttt ccaattcacg taatggaatg tttatagctg tcggaatttt      420
tccttctctg tccaattcct ccggtgacga acatcaataa gtaaaaacttc tggttctgctg      480
gaaataacttt tttctaagta                                     500

```

&lt;210&gt; 2225

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2225

```

ttttaattga ctggactcaa aagggccact atcaaaaaaa aaagtttacc ttaatttctt      60
acatgaatta gatataaaaa aaatggtaaa ttggacgtat aaatgggacc tcaaaatata      120
atctaataaa aaaaacacct catatatgaa acaaagaatt gaagattgta tgtcttgtag      180
ttagactaca aatctttttt aagaaaatac acagaaaaat agccttacat attcgactgt      240
ttatacttgt gacaagttta aaggatttaa ttaagcgac ttctgtatct atgtaattca      300
cctactctaa attaagactg taatttatca ttatctgaca tagttttttg gttttacgta      360
ttttttatta aaattcttgt gaagttcaac aagtagaata ttgtttttta attggggttat      420
ttggacctta gaatattcta aaatactcta tttacataga gagagcaaga tgcttaaatt      480
tatacaatat gtcgagtaaa                                     500

```

&lt;210&gt; 2226

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2226

```

aaataaatca ttttcaaaat ggtgtccaaa gtgtttgttg ctcttgccat cattggcttt      60
ataggggctg cacaagcctt tttcgaacaa gatgccgtct tagataagat ggtagatgac      120
atctctgctg aatatgagaa cagcattgca agaattagcc aagatagcaa aattgatatg      180

```

FC-8-C3.ST25.txt

attgcccgct gaattcgaaa aacaaggatt tgcccctgaa gtcgatagag atttggagag	240
gttcaacaaa gaagttgaaa ggaaacttag caaaaaagtg agtgaagccg caaaggaatg	300
ccttaaaggc caacaccaaa aagctctagg ctacgcacaa gaagcccgctg ctaaggtcaa	360
ggcttgacga gatgacaaac gtgatgaatt caaccaagtt cgcaaaatgg cttgccgctg	420
gagagaagcc agggagaacg ccgaagccct cagagcacaa gccaaggagt gcgttgtgac	480
cgagcgtgtc gtgaaccaga	500

<210> 2227  
 <211> 496  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (31)..(31)  
 <223> n = unknown

<400> 2227	
tttatcattt ggtataatta ataaagaacc ngatcatttt gacagagtat tggtgatat	60
ctgcaccagg tgacaagacc tgccagcaga catgggagac gatgaacaat gtcaccagca	120
aacaaaattc attatctgtc aactacaaat ttcataatcc agaccttaag gtcggtacat	180
tagatcagct cgtaggtctg tctgatgatc taggcaagct cgatgtattc gttgagcaga	240
tcactcgtaa ggtagcaaca tatcttggtg aggttcttga ggaccaacgt gataaacttc	300
acgagaattt aatggcaaac aacagcgatc tgccatctta cataactcgc ttccagtggg	360
acatggcaag tacccaatca agcaatctct tcgtaacatc tcagatatca tcagcaagca	420
agtaggacag atcgatgccg acttgaaaac caaatctcag gcgtacaaca atttgaaagg	480
cagtttgcag aacttg	496

<210> 2228  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (37)..(37)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (55)..(55)



<223> n = unknown

<220>

<221> misc\_feature

<222> (60)..(60)

<223> n = unknown

<400> 2228

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tgtgcaaagg tagcataatc aatagttttt tggttgnttg ctggaatgaa tgatngaccn      60
gaaatatttaa ctgtcttaat aaaattgtta tagaatttaa tttttatggt aaaaagcgta      120
aatattatta aaggacgaga agacccttta aagttttata tataaatata gattaatttt      180
aaggaatatt attaaattta tttatattaa tatattttat tggggtgata ggaaaattta      240
taaaactttt tttttattaa aacataaata attgaataat tgatccataa attatgatta      300
aaagattaag ttacttaagg gataacagcg taattatttt taagagaaca tatcgacaaa      360
atagattgcg acctcgatgt tggattaaga taatttttaa atgcagaagt tttaaaattt      420
ggctgttcga ccattaattc ttacatgacg tgagttcaaa ccggttaagc caggtgggtc      480
tatccttaat ttttaaaa                                498
```

<210> 2229

<211> 495

<212> DNA

<213> Ctenocephalides felis

<400> 2229

```
tttaaaatgc cgacatacaa gttgacatac ttcaacgtta aggctttggc tgaaccattg      60
cgtttgttgt tgtcttatgg aggagccgat tttgaagacg tcagggttga gaaggaaaac      120
tggccagcag ttaaaaacac attcccatc ggacaagtcc cagttttgga aatcgacggt      180
aaacaaataa accaaagctt ggcaattgct cggtatcttg gcaaacaatt caacttggga      240
ggcaaagatg ccttagaaga tttggaaatt gatgccatcg ttgattcaat gaacgatttc      300
agactaaagg ctgctgttgt tatttatgaa caagatgaag cagtgaagc caagaaagtc      360
gaacaattga ccaaagaagt agtaccattc tactttgaaa aattcgaggc tatcgcaaaa      420
agaacaatgg acatttagct tgggaaaatt gacctgggca gattcggctg gctggcaatt      480
cgaagcatgg aactt                                495
```

<210> 2230

<211> 500

<212> DNA

<213> Ctenocephalides felis

<400> 2230

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cgaacacgca acatcggtag agaacattaa tacacgcgcg acacaccaaa tcttgcagag      60
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FC-8-C3.ST25.txt

aataaaaaac atcactaaaa gcgaacgggt ccaaacgaga tatattcgcg ggtagtggt	120
aaaaagactg atatcttact caaaagtggg aaataaaata aatcgatatc aagatgacga	180
gttttggtgc gacgcagatt tgtgccagtt tgtagttct ttagtgatc gtacaacaag	240
gtaaagcact aagttgttac gaatgcaaca gccacaacga cacgcgatgc tcagaagaca	300
tacccccaga aaatttgaag aagaattgag atgaccacaa agggggcaca aaatatacga	360
tgtgccgcaa gattacgcaa gtcacgaat tcgaagtga cggattgcgc tgacacacgt	420
gttatcagag gttgcggatg ggacgagctt agttcaaggc aagtgttacc agcgtcgggt	480
ttcggtggtc gcaagaggtc	500

<210> 2231

<211> 500

<212> DNA

<213> Ctenocephalides felis

<400> 2231

gagaaaggag gcgaggcgga gattgttagt acttttaagt attacaatt taattaagtt	60
tttatttaatt ttcgttattt ttttttaagt ttttacgtga aagactttga ggagtgattg	120
tttatcagca accaacagaa aatgggggtcc gagatgaaaa gtacatgcta caaatgcaat	180
cgcgtaggac actttgccag agaatgcacc caaggaggcg gaggtatggg aggtggccgg	240
gaccgcgatg gcggtcacag ggactcgggc cgcggtcggtg agaaatgcta caagtgtaat	300
agatttggcc actttgccag agactgcaag gaggaggctg accgatgcta cagatgcaat	360
ggcactggac acattgctcg cgcttgcttg caaagcccag atgagccatc ctgttacaac	420
tgtaacaagc caggacacat tgcgaggaat tgtcctgaga gcggtggtat gactccagag	480
taggtcaacc aacgtgtaca	500

<210> 2232

<211> 500

<212> DNA

<213> Ctenocephalides felis

<400> 2232

attgagcgcc gtctcatctt acaagataaa ggatggatta gatgggca ttgttgagg	60
acaagatgct gatattgcca aatatggcta tcaagcttca ctccaagtat ttaacgaaca	120
tttctgtgga gcttcaatat tgaataatta ttggattgtc acagcagctc attgcatata	180
tgatgaattc acgtattcag ttcgagtcgg caccagtttc caaggaagac gtggttccgt	240
tcacctctgtg gcacaaatta tcaagcatcc tgcatacggg aatgtaactg acatcgatat	300

## FC-8-C3.ST25.txt

ggatgtcgcc ctcatcaagg ttcgaagacc attccggttg aataacagaa ctgttagaac 360  
 agtcaaactt actgatgttg gaaaagacat gccatcagga gaattagcca ctgttactgg 420  
 ctgggggaaat ttaggggaag atgaagacga ccccgaaaca ctgcaatatg taaaggtcct 480  
 attgtaactg gactcagtgc 500

<210> 2233  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2233  
 gttttgtgtc gtgtcacaga tttcaaaatg gataaaataa aggcaggacc cgttgttgac 60  
 atccttggag atgaaatgac cagaatcatt tggctctctca tcaaagaaaa gttgattctg 120  
 cccttttttg atgtogaatt gcatacttac gatttgggta tggaacaccg agacgaaact 180  
 aatgaccaag tcaactattga ttgtgctgag gcaatcaaga aatacaatgt cggaatcaag 240  
 tgtgcaacaa ttactoctga tgagaaaaga gtggaagaat ttaaattaaa gaaaatgtgg 300  
 aaaagtccca atggaactat cagaaatatt ctcggtggca cagtcttcag agaagcaatc 360  
 atctgcaaga acataccccg attggtaaca ggatggaatg agcccatagt catcggcaga 420  
 cacgctcatg ctgatcaata caaagccccg cttcgtggta ccaggaaagg gtaaattaga 480  
 attgcatttc ccccgaaatcg 500

<210> 2234  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2234  
 atttatgcat tctttaatgt tggaagctgg atatgcgatt ggattttcca taataggtgc 60  
 tattattaac tctgtgggaa agcttccaat tcttgtattc gtgatggtct catgcgggat 120  
 ttgtggaata atttgtgcat ttattgaaca tttaacaata gcatcatatt tatatttgtg 180  
 gttgctggtt tgcggaattg ctgtgacagt ggtaaacgcg gcattagtag atctgtaccc 240  
 tacacaactc agggcaatgg cagtatgtat atctttaatg atgggtcgat taggaagtgt 300  
 tgttggaagc aatgttgtag gaataattct agattataat tgcgatttaa catttttaat 360  
 atcaggaaca tctctgatag catgtggagt gattgcattc tttataccga acatttatca 420  
 gaagcaagtg gatagaagaa cgagcattgc ttcatatgga ccataaccat atttccgtcg 480  
 gtgttgtgaa atgcaattat 500

<210> 2235  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (490)..(490)  
 <223> n = unknown

<400> 2235  
 gtctcttaac aaaaataggt tgcgaaattt agaatcaact gtgacaaaat tatcaaaatc 60  
 tgcgccttct cttcattatt tgagtttgct tggaaatttg atatgtcctg atcaattgag 120  
 tgatccaaca acagacgtcc aagattatct tcgttatagg tgttacattg tacatcattt 180  
 accaaaatta ttatttttgg attggcgggc tgtatcatca aacgaggcaa aggaagcaaa 240  
 attgcggggt caatttatgc gggtcagaag acccgagcct aatcatgaaa tcacaaataa 300  
 aaacgacttt agtgatgcct tacattatct tccgttacct aaaaccgttc atagaaaaaa 360  
 aggatgtact tacagaaaat attctcagaa atatatagga cgtaattcag agggcaacaa 420  
 gtcataaaaa acagtgatct ctagggggcc ggtcccaatt cgcctatagt gagtcgattc 480  
 aattcactgn cgcgtttaca 500

<210> 2236  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2236  
 agtatcagta gcatgttcca aatatattga tccaagaatc attggaggcg aagatgctcc 60  
 tgaaggctcg gctccgtatc aagtttcaact gagaaatcgg gacctagagc atttctgtgg 120  
 tggctccatc ttaaacaac gttggattgt gacggctgca cattgcctaa aacctggcat 180  
 tttaaaatcc gtctatatgg gatcaaaact attagatggc aatgggtacat actacgacgt 240  
 cgaacgtttt gtgatgcac ataaatatat accaaaaatt actgtcaact atgctgatat 300  
 tgggtctaata aaagtgacaa aagacattat attcagtgac aaagttcaac caatcaaaat 360  
 aagcaaaaaa aatatcaagg gtggtgaaat ctgcaaggcc actgggtggg gtcgattgcy 420  
 gatggggccc cagtacaaaa cgaattgcaa caagtggaaa cactgcaat aacaaatgaa 480  
 aagtgcctacg aattgtctca 500

<210> 2237  
 <211> 500  
 <212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (417)..(417)

<223> n = unknown

<220>

<221> misc\_feature

<222> (484)..(484)

<223> n = unknown

<400> 2237

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tttattgggg ctgcccgaagc cttcttcgat caagatgccg tcttagataa gatggtagat      120
gacatctctg ctgaatatga aaacagcatt gcaagaatta gccaagatag caaaattgaa      180
atgattgctg ctgaattcga aaaacaagga tttgcccttg aagtcgatag agatttggaa      240
aggttcaaca aagaagttga aaggaaactt agcaaaaaag tgagtgaagc cgcaaaggaa      300
tgccttaaag gccaacacca aaaagctcta ggttttgcac aagaagctcg tgctaaggctc      360
aaggcttgca gggatgataa acgtgaggaa ttcaaccaag ttcgcaaaat ggcttgnccg      420
tggagagaag ccagggagaa cgccgaagcc ctcagagcac aagccaagga tgcgttgtcc      480
gcancgtgtc gatgaaccag                                     500
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<210> 2238

<211> 500

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (435)..(435)

<223> n = unknown

<400> 2238

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gtcagttcca tgggtgtgac taaaatgaag gaaaccgctg aagcttactt aggcaaaact      120
gtgaccaatg ctgtcgttac tgtacctgcc tacttcaatg actcacaacg tcaagccacc      180
aaggattcgg gaactatctc cgggtctaaat gtgttgagga taatcaatga gccaccgct      240
gctgctattg cttatggttt agacaagaag ggtgtaggcg aaagaaatgt ccttattttt      300
gatttgggtg gtggtacttt tgatgtgtcc atcttaacca ttgaagatgg tatttttgaa      360
gtcaaatact ctgctgggtga tactcacttg ggtgggtgaag attttgataa ccgcatggtt      420
```

## FC-8-C3.ST25.txt

aaccacttcg tacangaatt caaacgcaaa tacaagaaag atctttacctc caacaagcgt 480

gctctccgtc gttgaggaca 500

<210> 2239

<211> 500

<212> DNA

<213> Ctenocephalides felis

<400> 2239

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aaaatgtgag attatatgac ggcgatgtaa agactaatTT tgaaggcgggt gaaatagttc 120

ttacaagccg gcgattatTT tggggaaggc caggcgagat tcccagaggc caaacatgta 180

taacactgcc attaaatcTT gtcaagggtga tcgaagaagc ttctgctggg gtttttggtt 240

tcagcagaag caaaaaagtt atacttcatt tatctccagc atctcccagt aattgctttt 300

aaacttaata aagcatgcaa aataattcac taaaaatttg attttaatct tagacaaagt 360

acctggacct tctgcaagca gtttatatga tttcataaaa ctttcattca gagaaggata 420

ttcatctgaa tttattccaa gtttaaagtc aacttttagaa gccaagaat ggagtgtgta 480

gaagacagct ctctgccag 500

<210> 2240

<211> 500

<212> DNA

<213> Ctenocephalides felis

<400> 2240

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ttaattttta tgttaaaaag cgtaaattatt attaaaggac gagaagacct tttaaagttt 120

tatatataaa tatagattaa ttttaagaat attattaaat ttatttataat taatatattt 180

tattgggggtg ataggaaaat ttataaaact ttttttttat taaaacataa ataattgaat 240

aattgatcca taaattatga ttaaaagatt aagttactta agggataaca gcgtaattat 300

ttttaagaga acatatcgac aaaatagatt gcgacctcga tgttggatta agataatttt 360

aaaatgcaga agtttttaaaa tttgggtctgt tcgaccaata attcttcatg atctgagttc 420

aaaccggttt aagccagggtg gttctatcct taatttttta aaataattag tcgaaaggcc 480

attaatttat aataattatt 500

<210> 2241

<211> 500

<212> DNA

<213> Ctenocephalides felis

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 taccgcagcc gatgtcgatg aagccagagc ttgcttgaaa gatgtccttc aagctgcccg 180  
 tgaaggagcc aaggacttgg ccaaggcttt caaagaaacc tgggtccaat tgggcaactt 240  
 ggttcgtgaa gtccggcaaat gcgcaagagg agccgtgaag gaattcagag ataacttgg 300  
 acaagtcctg aaagactgtg ctgactgctt aaaacttact gacaactaaa ttagtttagg 360  
 aattttataa caaactgtaa tttgcttaaa tttgctttat gatcagctag ttgtatatta 420  
 tttgtaattt gatggtttta gttttttatg taacattttg acaaataaaa attgttatga 480  
 aaataaaaaa aaaaaaaaaa 500

<210> 2242  
 <211> 275  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2242  
 aaacagtgaa attgcagggt taatcaaata ttttatatga tacacatatt atttacagat 60  
 atgatcaaac taagtattac ttgcgttgtt tatattagca tattaatatt ttcttatgaa 120  
 atgtttctta gatgatttta aatattgtta aataaaattt gtatactttt tagatatgca 180  
 ccaaataaat taaaataaaa atctttacat tcctaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 275

<210> 2243  
 <211> 495  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (441)..(441)  
 <223> n = unknown

<400> 2243  
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 gaaacgccaa ccagttcacc tttgtaaacc agtgggtccac cagaatcacc aaagcaaag 120  
 cctcttaaaa attcccttaa tgtacatatt tgcgaggttg gctcaacgaa ttgagacaat 180  
 tcgtagcact tttcatttgt tattgcagtg gtttccactt gttgcaattc gtttggtact 240  
 ggggccccat ccgccaatcg accccaacca gtggccttgc agatttcacc acccttgata 300

FC-8-C3.ST25.txt

ttttttctgc taattttgat tggttgaact ttgtcactga atataatgtc ttttgtcact	360
tttattagac caatatcagc atagttaaca gtaatttttg gtgtatattt atgatgcac	420
acaaaacgtt cgacgtcgta ntatgtccat tgcacctaag gagtttgatc ccatatagac	480
ggatttaaaa tgcgg	495

<210> 2244  
 <211> 498  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (41)..(41)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (151)..(151)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (406)..(406)  
 <223> n = unknown

<400> 2244	
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aaccacaaca tgcaaactca tcaacgaatg ttacgtaatt tacaacacaa agtcaggaac	120
caccaactac ggttgcctaa tcaagatgac naattcccaa agaaactact gtgcaaaaaa	180
tccacacatg tgcataactt gcaatgggaa taattgcaat accaaagatt tgatgaaaat	240
gtgcatcact tgcacctcca aggaggacga gagatgcacc accgatcctc agcaattggc	300
taaaacttct gtcaggcctt gcaatgggaa ttgcattaca catgtccttc cagatggtac	360
aaatacaagg ggttgtatga aaccaactga tgactgtgat gatatnaaat gccaggagt	420
caaaggtaac ctttgaatgc gtgttttccc aagaaatcgc aggggttgca acgctaaaga	480
tgatgcaagg aagttgct	498

<210> 2245  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2245	
ttagcaaaat actgtgaaat aaatcatttt caaaatgggtg tccaaagtgt ttgttgctct	60



FC-8-C3.ST25.txt

tgccatcatt ggcttttattg gggctgcccc agccttttttc gatcaagatg ctgtctttaga	120
taagatggta gatgacattt ctgctgaata tgaaaacagc attgcaagaa ttagccaaga	180
cagcaaaatt gatatgattg ctgcagaatt cgaaaaacaa ggatttgccc ctgaagtcga	240
tagagatttg gaaaggttca acaaagaagt tgaaaggaaa cttagcaaaa aagtgagtga	300
agccgcaaag gaatgcctta aaggccaaca ccaaaaagct ctaggctacg cacaagaagc	360
ccgtgctaag gtcaaagctt gcagggatga taaacgtgat gaattcaacc aagttcgcaa	420
aatggcttgc cgctggagag aagccagggg gaacgccgaa ccctcagagc acaaccaagg	480
agtgcgtgtg accgccgcg	500

<210> 2246  
 <211> 495  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (52)..(52)  
 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
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 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (375)..(375)  
 <223> n = unknown

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tctttaagag ataaattctt gaaacatttt tgtggtggat cgattcttaa tgaanaatgg	180
gttcttactg ctgcacattg tctagtcgca ggccgtttga gttccatcta cgtnggatcc	240
aacaaactaa acaaaggagg tcgttactat gatgtcaaaa aatatattgt acatgaagaa	300
tataatccta aaaccttata cgccgatatt gggctcatag aagtagacga agaaattcaa	360
ttcaacaatt tagtnaaacc gattcctagg cgaaaagaag cattggtagg caaggagtca	420
gtcacagctt taggttgggg gttgcaaagc acgatggaaa aaatcaccaa ataattttag	480

aaaattgact tgaaa

495

&lt;210&gt; 2247

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2247

ggtgagatag aaactgatga tgaggacaat aataaaccac cagaacctat taagcctgta 60

gaaattgtta agccacaatc ccagttaca ctgaaaactt cagaaaatgc caaatacagt 120

gataaaaagc catattataa agaaaaatat aagaaatcca gcaaacacag caaagaaaaa 180

agatctaaga gtatctctga atcaaatac tgtgacatta ataatgaaga tgactgggca 240

tctaattgttg aaaaagctat tgcaaatac ataagaaaag aaagtataa taatgacact 300

aattcatgtg ataataagga taataaggaa ggaagtaaag atagtcgtgg tagaaaaaga 360

agaaataaat cttccaaagg atcttccaat aaggaatctt cagtaaaagg cctaaagttg 420

aaaaagtcaa ggaacctagc atcctgatga agatttgatg aagatgaact tcttggtatt 480

aggggtggca gtctattaat 500

&lt;210&gt; 2248

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2248

gaagatttaa aaggccgcag taatttgact gtgcaaagg agcataatca atagtttttt 60

aattgaaagc tggaatgaat gattgaatga aatattaact gtcttaataa aattgttata 120

gaatttaatt tttatgttaa aaagcgtaaa tattattaaa ggacgagaag accctttaa 180

gttttatata taaatataga ttaattttta gaatattatt aaatttattt atattaatat 240

attctattgg ggtgatagga aaatttataa aacttttttt ttattaaaac ataaataatt 300

gaataattga tccataaatt atgattaaaa gattaagtta cttaagggat aacagcgtaa 360

ttatttttaa gagaacatat cgcaaaatag attgcgacct cgatgttgga ttaagataat 420

ttaaagtga gaagttttta aatttggttg tcgccattaa ttcttacatg atctgagttc 480

aaaccggtta agccaggtgg 500

&lt;210&gt; 2249

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (35)..(35)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (398)..(398)  
 <223> n = unknown

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 atgaaatatt aactgtctta ataaaattgt tatagaattt aatttttatg ttaaaaagcg 120  
 taaatattat taaaggacga gaagaccctt taaagtttta tatataaata tagattaatt 180  
 ttaagaatat tattaataatt tatttatatt aatatatttt attggggtga taggaaaatt 240  
 tataaaactt tttttttatt aaaacataaa taattgaata attgatccat aaattatgat 300  
 taaaagatta agttacttaa gggataacag cgtaattatt ttaagagaa catatcgaca 360  
 aaatagattg cgacctcgat gttggattaa gataattnta aaatgcagaa gttttaaaat 420  
 ttggtctgtc gccattaatt cttacatgat ctgagttcaa accggttaag ccaggttggt 480  
 ttctatcctt aattttttta 500

<210> 2250  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2250  
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 tatgcgtgct ttggatgact tctatgacaa aaacttcgtg gaatttgtgc ccctacgtac 120  
 aaaggtaaag gaaattttgc aagaagaaga agatttatca gaaattgtac aattggttgg 180  
 taaagcctcc ttggcggaaa ctgacaagat cacacttgaa gttgccaagc tcttgaaaga 240  
 cgatttccta cagcagaaca gctactcatc atatgatcgt ttctgcccct tctataaaac 300  
 agttggtatg ttacgtaaca ttattgcttt ctatgatatg gcaaaatagc cagttgaatc 360  
 tactgcacaa agtgaaaaca agattacctg gaataccatt agagatgcta tgggcaatat 420  
 tctatatcag ttgtcctcaa tgaagttcaa ggaccagtc aaggatggtg aggcaaagat 480  
 caagagtgat tttgatcaat 500

<210> 2251  
 <211> 500  
 <212> DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2251

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gtcttagata agatggtaga tgacatctct gctgaatatg aaaacagcat tgcaagaatt     120
agccaagata gcaaaattga aatgattgct gctgaattcg aaaaacaagg atttgcccct     180
gaagtcgata gagatttgga aagggtcaac aaagaagttg aaaggaaact tagcaaaaaa     240
gtgagtgaag ccgcaaagga atgccttaaa ggccaacacc aaaaagctct aggttttgca     300
caagaagctc gtgctaaggt caaggcttgc agggatgata aacgtgagga attcaaccaa     360
gttcgccaaa atggcttgcc gctggagaga agccaggag aacgccgaag ccctcagagc     420
acaagccaag gagtgcgttg taccgcaccg tgtcgatgaa ccagagcttg ttgaaagatg     480
tccttcaagc tgccgtgaag                                     500

```

&lt;210&gt; 2252

&lt;211&gt; 495

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2252

```

ctgattcgtg cattaagtaa aggcggctta aaagcagtcg tctgtgaata taaaattct      60
ttaggcaacc atgttcaaca gtttgtaga ggtggcacgg aattcgcctt tccgtagccc     120
tattgcacct gtacaatgtg aagctgaatc taaatcattg gcaacaatgg cagcctccac     180
ctcagatgca acaggagatt cctgtgcctt tggatctggt cattaacttg ctctttgcgg     240
atttgaggga attatttctt gcggtgtaac acacaccatg gtcgttccac ttgatttagt     300
gaaatgccgt attcaagtag atcctgcaaa atacaaatca gtattcaatg gattcaaagt     360
aactctagcg gaagatggtg ctagaggtct tgctaaaggt tgggctcaa cctttgtgga     420
tactccatgc agggctcttg caaatcgggt ctttatgaag tattcaaagt attgactctg     480
acatattggg agaag                                     495

```

&lt;210&gt; 2253

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2253

```

tgccaaaaaa taaaacaatt taaaaacgaa aatggtctcg acgaaattgt gtttgcaatt      60
tttgattggt gcatttgctg gatatacgac gagtgcccaa caatacacat gtctaaccga     120
tggcgaaaaa gaaaccacaa catgcaaact catcaacgaa tgttacgtaa tttaaacac     180

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FC-8-C3.ST25.txt

aaagtcagga accaccaact acggttgccct aatcaagatg acgaattccc aaagaaacta	240
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tttgatgaaa atgtgcatca cttgcacctc caaggaggac gagagatgca ccaccgatcc	360
tcagcaattg gctaaaactt ctgtcaggcc ttgcaatggg gattgcatta cacatgtcct	420
tccagatggg acaaatacaa ggggttggtg aaaccaactg atgactgtga tgatatgaaa	480
tcaggagtg caaa	494

<210> 2254  
 <211> 495  
 <212> DNA  
 <213> Ctenocephalides felis

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caccactatg tctacggtcg acaaggaaga attggtgcaa cgagccaaac tggcagagca	180
ggcccgaag atacgatgat atggctgcgg cgatgaaggc tgttacggaa accggtgtgg	240
aattatccaa tgaagaaagg aaccttttat ctgttgcta taaaaatgtg gttggggcgc	300
ggcgttcac atggcgtggt atctcctcca tcgaacaaaa aacagagggt tccgaaagaa	360
aacaacagat ggcaaaggag tatcgggaaa aagttgaaaa ggaacttcgt gaaatttgtt	420
acgacgtact gggccttctt gacaagtacc ttattcctaa agctagtaat gccgaagtaa	480
ggtttctatc ttaag	495

<210> 2255  
 <211> 486  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2255	
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tgaggggatc tgaaaaccga aatgatattg ttatacagaa tggctttgga aaatttggg	120
gcaccagcac taattccgtt gaaactgaaa gtattccaca ggatcctgaa acgcaaaaag	180
ttaaagaaac tatgggaatt ccgggttttg ccgcaaagca aaaacttttg atgtagaaga	240
aatggtgaag caaattcatc aaactgtag agataaaact aaagatataa ttaaagataa	300
tactaaagat gattctgaag aagagagtga tattgtaggt cccttacctt ccaatttaac	360
atctgaaaat gctgataaaa ctgtggaatc cgataaaaagt gaagacagtt atgatgattt	420
aagtgactca gatgaagatg attctaata aaaactttta ataaaccgat cctttatcca	480

tgaggt

486

<210> 2256  
 <211> 494  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n = unknown

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 tttcgccgca ggtgggtatct ctgccgcagt ctctaagact gtggtagcac ccatcgaacg 180  
 tgtcaaatgt ctctgcaag tacaacacat ttccaaacaa attgctgagg ataaacgtta 240  
 caaaggatct atcgattgct ttgtacgtat ccctaaggag cagggcgtag tttcttctg 300  
 gcgtggtaac ttggccaatg tcattcggtta tttcccaact caggctttga acttcgcatt 360  
 caaagacaag tacaagcaag ttttcttggg tggagttgac aagaagacc aattctggcg 420  
 ttacttcgca ggaaacttgg catctggtgg tgctgtggag ccacatcatt gtgcttcgctc 480  
 taccacttg attc 494

<210> 2257  
 <211> 485  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2257  
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 taccttggtta actgttactg gatggggatc aactggaaat ggaccttcaa ccaatgtttt 120  
 gcaagaagt caagtaccac atgtcgacca aaccacttgc tccaaatctt acccaggaag 180  
 tttgactgat cgtatgttct gcgctgggtta tttgggacaa ggaggcaagg actcatgcca 240  
 aggtgattct ggtggcccag ttgttgtcaa tgggtgtcaa catggaattg tctcatgggg 300  
 tcgtgggtgt gcacttcctg attatcctgg agtttactct aaaatctcta ccgctcgag 360  
 ctggatcaag gaagtgtctg gtgtttaatt tattcttgaa atctctattt tgtattattt 420  
 atgtatatag taagagttgt aaatataaat agttacatct aatctaaaaa aaaaaaaaaa 480  
 aaaaa 485

<210> 2258  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2258  
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 cattttatatt gctactgaaa gtgagttgct tgaaaagtac cctcatgcaa agaactcttga 180  
 gttggagaaa gaagaattat ttacgggaag agttcaactc acgtatactt taggaaaccg 240  
 agtgccggga gatcggcttg tagccattgg aaccgattcc tattcttggc cagatgcccg 300  
 agacgttaag ctggaattga cctacccac ttctggaaat ggtgcggttg tgtcttacct 360  
 tcttatagga atcgttcaag atcaaatatc ggcaatgcct atgttggttag tggaggaata 420  
 ggacaaagaa ggattgttat tgtgtcaagc tgtcacacga cattcttgag ctataatgct 480  
 caaattatgg acgataagtg 500

<210> 2259  
 <211> 178  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (127)..(127)  
 <223> n = unknown

<220>  
 <221> misc\_feature  
 <222> (173)..(174)  
 <223> n = unknown

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 aaaaaaatta aatagattcc aatcatgatt tgttataatg aaaaatgggt taataaaggc 120  
 agcatanttt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aannaaaa 178

<210> 2260  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2260  
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 gctgcacaag ccttttttga acaagatgcc gtcttagata agatggtaga tgacatctct 120

FC-8-C3.ST25.txt

gctgaatatg agaacagcat tgcaagaatt agccaagata gcaaaattga tatgattgcc	180
gctgaattcg aaaaacaagg atttgcccct gaagtcgata gagatttgga gaggttcaac	240
aaagaagttg aaaggaaact tagcaaaaaa gtgagtgaag ccgcaaagga atgccttaaa	300
ggccaacacc aaaaagctct aggctacgca caagaagccc gtgctaaggt caaggcttgc	360
agagatgaca aacgtgatga attcaaccaa gttcgccaaa atggcttgcc gctggagaga	420
agccagggag aacgccgaag ccctcagagc acaagccaag gagtgcgttg tgaccgcagc	480
cgatgtcgat gaagccagag	500

<210> 2261  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2261	
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gtcctgtcgt aacagctgaa cgtatgtcag gatcagctat gtacgaattg gtaccgtgta	180
ggatactatg aacttgtcgg agaaatcatt aggttggaag gtgatatggc tactattcag	240
gtatatgaag aaacatcagg tgtaactgta ggtgaccctg ttctaagaac agggaaaacca	300
ttgtccgtag aacttggacc aggtatcttg ggaagtatct ttgatggtat ccaacgtcca	360
cttaaagata ttaatgagtt aactcaatcg atttacattc ccaagggtgt taatattcct	420
gctctgtcaa aaacacagtc ctgggacttt gatccaatga acattagaat tggatcccat	480
attactggag gagattgtat	500

<210> 2262  
 <211> 496  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
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<400> 2262	
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ttggggctgc ccaagccttc ttcgatcaag atgccgtctt agataagatg gtagatgaca	120
tctctgctga atatgaaaac agcattgcaa gaattagcca agatagcaaa attgaaatga	180



FC-8-C3.ST25.txt

ttgctgctga attcgaaaaa caaggatttg cccctgaagt cgatagagat ttggaaaggt	240
tcaacaaaga agttgaaagg aaacttagca aaaaagttag tgaagccgca aaggaatgcc	300
ttaaaggcca acaccaaaaa gctctagggt ttgcacaaga agctcgtgct aagggtcaagg	360
cttgcagggg tgataaacgt gaggaattca accaagttcg ccaaaatggc ttgncgctgg	420
agagaagcca gggagaacgc cgaagccctc agagcacaag ccaaggagtg cgttgtccgc	480
accgtgtcga tgaacc	496

<210> 2263  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (34)..(34)  
 <223> n = unknown

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aactttgtcg aaacaccatc aagttaagaa tcgtcgattt tacatagatt atgataaaaa	180
tacattcatg atgggatgac aaaccatttc gatacatagc aggttcatta cattatttttc	240
gggtacatcc gcaacaatgg aaagaccgtt tggaaaagct aaaagcagca ggtttaaatg	300
ccgttgatac atatgttgag tggtcacttc acaattttga tgaaggaaaa tattgggtggg	360
gcagcaacgc cgatttggag caatttatta aaactgcaca agaagtagga ttgtatgtaa	420
ttttgagacc agggccatac atttgcgctg aacgtgattt tggaggccaa ccttattggc	480
tcttatcaca cccagaaaaa	500

<210> 2264  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2264	
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aaaacaagga tttgcccctg aagtcgatag agatttggaa aggttcaaca aagaagttga	180
aaggaaactt agcaaaaaag tgagtgaagc cgcaaaggaa tgccttaaag gccaacacca	240
aaaagctcta ggttttgcac aagaagctcg tgctaaggtc aaggcttgca gggatgataa	300

FC-8-C3.ST25.txt

acgtgaggaa ttcaaccaag ttcgccaaaa tggcttggcc gctggagaga agccagggag	360
aacgccgaag ccctcagagc acaagccaag gagtgcgttg ttaccgcagc cgatgtcgat	420
gaagccagag cttgcttgaa agatgtcttc aagctgccgt gaaggaccaa ggacttggca	480
aggctttcaa agaacctgtc	500

<210> 2265  
 <211> 455  
 <212> DNA  
 <213> Ctenocephalides felis

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ggttcttcaa gctgcccacg aaggagctaa agacttggcc aaggcactca aagaaacctg	180
gtcccaattg ggtaacttag tccgcgaagt cggaaaaatgc gcaaggggag ccttgaaaga	240
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taactaaatt attttaagaa ttttataacc aactgtaaat tatctataaa cgttttaaga	360
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<210> 2266  
 <211> 505  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2266 tctgtcttaa taaaattggt atagaattta atttttatgt taaaagcgt aaatattatt	60
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attaaattta tttatattaa tatattttat tggggtgata ggaaaattta taaaactttt	180
tttttattaa aacataaata attgaataat tgatccataa attatgatta aaagattaag	240
ttacttaagg gataacagcg taattattht taagagaaca tatcgcaaaa tagattgcga	300
cctcgatgtt ggattaagat aattttaaaa tgcagaagtt ttaaaatttg gtctgttcga	360
ccattaattc ttacatgac tgagttcaaa ccggtttaag ccaggttggt tctatcctta	420
atthtttaaaa ttaattagtc gaaaggccat taatttataa taattattta attgaataaa	480
ataaaaaaaaa aaaaaaaaaa aaaaa	505

<210> 2267

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2267

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gtttgtcgtt cttgccatca ttggctttat tggggctgcc caagccttct tcgatcaaga      120
tgccgtctta gataagatgg tagatgacat ctctgctgaa tatgaaaaca gcattgcaag      180
aattagccaa gatagcaaaa ttgaaatgat tgctgctgaa ttcgaaaaac aaggatttgc      240
ccctgaagtc gatagagatt tggaaagggt caacaaagaa gttgaaagga aacttagcaa      300
aaaagtgagt gaagccgcaa aggaatgcct taaaggccaa caccaaaaag ctctaggttt      360
tgcacaagaa gctcgtgcta aggtcaaggc ttgcagggat gataaacgtg aggaattcaa      420
ccaagttcgc caaaatggct tgccgctgga gagaagccag ggagaacgcc gaaccctcag      480
agcacaagcc aaggagtgcg                                     500

```

&lt;210&gt; 2268

&lt;211&gt; 381

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2268

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ttttactaaa ttttaatat tgtataccgt tgtcgaaaga atatttttaa aaaaattaaa      60
ttttcaaaaa tttaaaataa aatttatgtc aaatcaagggt gcagtttata atttagaaga      120
aatgggttac aataaattta tttaaatgga ttttatattg aaaaatatta ataaagggtgg      180
atttaatagt aaattaatth taatataatt aattgattaa agttctaaaa tatgtacata      240
ttgccgctcg ctctttttta tttattaaaa aaagataagt cgtaacatag tagatgtact      300
ggaaagtgta tctagaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      360
aaaaaaaaaa aaaaaaaaaa a                                     381

```

&lt;210&gt; 2269

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2269

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atgttgcact ttacggatc aaagagccaa tatcatttac tccatgcaca gtaactcctg      60
taaaattaat acaatcgga aaagaagtac cgaagggaac aactttgagt gtaactggat      120
ggggcgccac gaaggaatgg gggccaattt cgccaaagtt acaagaagtt aaagttaaag      180
cttactcaag tcaagaatgc aagaacagtc atgctattaa cagtgcacatc atttctgaca      240

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ggccacttgt agatgaaaaa caggttcaag taggagttat atcctggagg cgaggatgcg	360
cgcgacctgg atatacctggc gtatatataa aattgagccc ccggaaatcc aacagtttat	420
taaaaacaat gtaaaacttt aaatcataaa actgatgaaa atcaacaata aacaattacg	480
gaaaataaaa aaaa	494

<210> 2270  
 <211> 496  
 <212> DNA  
 <213> Ctenocephalides felis

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gaagaaataa agtgtactaa taagcagttg ggaacathtt gtcacgattg ttctactttg	180
aagttgtgcg ctggacaaga aaccccaatt acaacaatca attgcagaga ctcaaattcc	240
gatgtcccat tttgtgtaga tgatatgtgc tcatcaaaac ctggggaaaa ctgtaagacg	300
gcagaaacta catgcgcggg tgtaggatat cagccagatc cgaaagactg cacaagatac	360
ttattctgca aagatggtaa aggtcaggtt ttcgaatgcc cacctaacta tgtatatgat	420
cattctaaaa attgtgtaaa aagaaatcgt cagaagctga ttgcaccgca tgaaatgcac	480
aatccaatt ctttta	496

<210> 2271  
 <211> 494  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2271	
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gattttgact gcagctcatt gtgtttatgg aagagaagac ttagattttt cggttcaata	180
tggagtcacc aaaatttcac aaaaaggtga tactgtagtt gatgttgatg aaataattgt	240
acacaaaggt tataatccta gtaacagtta tatcaacgac attgcacttc tcaagctatc	300
tgaaccctta aaatatagta aatttgcgca accagttact ttgccagaag ccaatgaaca	360
aactaaacac aatgcatcag ctactcttgt cggatgggga ataaattcta ctaccgacgg	420
agttttacaa acacatctcc aagaattgca ctaccagatc gtcggatcca aggaatgtgg	480
tgatttgcac tttta	494

<210> 2272  
 <211> 496  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2272  
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 cagagttcct tcttattatg ataaattaaa ttcttggtt ggtcagattt tgcagagaga 180  
 tgctccgcag gtacccttgg aaatatgtga tttagatagc gctggtattg tgttaagata 240  
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 cgtttgtggt gaacagcaat tagaaatfff agaggctacc ataaaacata aagaaacatt 360  
 tgtaagactt gttgagcaga gtccagtttt gaaactagtt gaactgcagg atgggctggt 420  
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 cagaattaaa taagtt 496

<210> 2273  
 <211> 496  
 <212> DNA  
 <213> Ctenocephalides felis

<220>  
 <221> misc\_feature  
 <222> (463)..(463)  
 <223> n = unknown

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 aaagcggata tggatttata aatagaactg acaccaagga agatgtgttt gtacatcaat 180  
 ctgccatagt taaaaacaac ccgaagaagg ctgtccgcag ttaggggat ggagaaactg 240  
 tggagtttga tgtggttaatt ggagagaagg gaaatgaggc agctaattgt accggcccag 300  
 aaggagagcc agtcaaggga agcccatatg cgcccgacaa acgccgcagc tatcgccaat 360  
 ggagctaccc tcgtggagga ccaggggac ccagaagaaa ttacgaagga ggcgaaggta 420  
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 cccgcgtggc cgttcc 496

<210> 2274

<211> 485  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2274  
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 tagataagat ggtagatgac atctctgctg aatatgagaa cagcattgca agaattagcc 180  
 aagatagcaa aattgatatg attgccgctg aattcgaaaa acaaggattt gcccctgaag 240  
 tcgatagaga tttggagagg ttcaacaaag aagttgaaag gaaacttagc aaaaaagtga 300  
 gtgaagccgc aaaggaatgc cttaaaggcc aacaccaaaa agctctaggc tacgcacaag 360  
 aagcccgtgc taaggtaag gcttgagag atgacaaacg tgatgaattc aaccaagttc 420  
 gcaaaatggc ttgccgctgg agagaagcca gggagaaccc gaaccctcag agcacaagcc 480  
 aagga 485

<210> 2275  
 <211> 500  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2275  
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 atttgcatca ttggaatgagc ccgcaccagg agtagtacct actcctgaac ctacacctgt 180  
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 acccgaaatg cagtattgtc cggaatatag agcagatccg gttaaggaat cctgtagccc 300  
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 tgcaaagcta ttattattgt gacgaaaata gtataggaac ccaatattat tgcccgc aaa 480  
 tttgcatatg atccgtacgt 500

<210> 2276  
 <211> 535  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2276  
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agattaattt taagaatatt attaaattta tttatattaa tatattttat tggggtgata	300
ggaaaattta taaaactttt tttttattaa aacataaata attgaataat tgatccataa	360
attatgatta aaagattaag ttacttaagg gataacagcg taattatttt taagagaaca	420
tatcgacaaa atagattgcg acctcgatgt tggattaaga taattttaaa atgcagaagt	480
tttaaaattt ggtctgttcg accattaatt cttacatgat ctgagttcaa accgg	535

&lt;210&gt; 2277

&lt;211&gt; 496

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2277

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ctttgtgcag aagcagaagc aagacgtaag attctcagag gccgacaagt tataacaaga	180
acttataaca aaggggtggc cgttcctgcc tggtcgattg ttctaattgtg tggaatagga	240
atgattatc tgggggggatt attatatgtt gcaatgtaca aaatgatttt atcagaaagt	300
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gaatcttgaa cgtcaataaa taaattatat atatatatat atatatatat atatatatat	420
atacttaaaa aaaatatact atttaattta tgtattggaa tgactagata caattatata	480
tagcttatta aaaaaa	496

&lt;210&gt; 2278

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; Ctenocephalides felis

&lt;400&gt; 2278

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tacacttcag tttcagaatt gggagaagct ggaaccgtcc aatttagaga cttgaatggt	180
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caagacgttc cccatgctcc taatccaagg gaaataatag acctagaggc acatttggag	360
aaaacagaaa atgaaatcat ggaactgtcc caaatgcag tcaatcttaa atccaacttt	420

ttggaattga cagaactcaa aaacgttcta gaaaaaacac agagcttctt cgtggagca 479

<210> 2279

<211> 543

<212> DNA

<213> Ctenocephalides felis

<400> 2279

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attattttcca ctatatcaga ttactcattt gaaccatgtc tctcgtacca ttgttggttc 120

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gcctaaatcg taatgatctt attactaatc taagggccac tccatcactc ttccgtggcg 240

gttattacag accttggagg aatgaaatta ctgctgacga ttcttcatca actatcgttg 300

ctgacaaaga taaattccaa gtgacttttag acgttcaaca attcaaacca aaagaaatca 360

ccgtaaaaac aaaggacaat tgcgtaatcg tcgaaggcaa acacgaagaa aaacaagatg 420

aacacggata catttcccgt cattttgttc gacgatatgt cttgcccaga aatcacgatg 480

ctgccgatgt agtatcgagt ttgtcctcgg atggagtatt gaccataaca gcgccaaga 540

agg 543

<210> 2280

<211> 534

<212> DNA

<213> Ctenocephalides felis

<220>

<221> misc\_feature

<222> (475)..(475)

<223> n = unknown

<400> 2280

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ataaagaaat tgtcagtatg gatgaagtag ctaaagatgc taaaaatttt attgaacgca 180

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gtggtatttt aatattacaa gtagctaacc acaaagggtta catttctatt gactgggata 360

aagtaactaa aaaggctgat aagggtgacag ataaaattga agaggctggt actggagaaa 420

ctcccaaatt aatggataaa gtcagaattt ttacaagaga gaatccttat attgnaactt 480



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<210> 2281

<211> 539

<212> DNA

<213> Ctenocephalides felis

<400> 2281

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 atcgaagaga ttgtaaaaaa tattatcaat gtttcttggg taacaacaaa tggcaaataa 180  
 aacattatga ttgtccaaat ggcttgcaat ttgataaaac ggagttgcga tgcataccca 240  
 cgccaccgag cgaagaatgc aaaagtgcga ttgctaagta aggcttaaag caggaaaaca 300  
 atcttgaata gactaattag gattcaaatt atcataaagt agtcaattaa tataataaat 360  
 cacaaatgat ctgtgcaatt aaatataaaa aatatgtata aaaattaaaa tgtataaaat 420  
 tgtattttat gtaaggagca caaacaaaat gtcattaact atagtaattt ctgattattt 480  
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<210> 2282

<211> 549

<212> DNA

<213> Ctenocephalides felis

<400> 2282

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 aattattgca aatgaccaag gaaacaggac tactccttca tatgtcgcgt ttaccgatac 180  
 agagcgtctc atcggagacg ccgccaagaa tcaagtggcc atgaacccca ataacacaat 240  
 ttttgatgcc aaacgtctta ttgggcgtaa attcgaggac caaacagtcc aagctgatat 300  
 gaaacattgg cccttcgagg ttgtcagcga tggaggtaaa ccaaaaatta gagtatcgta 360  
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 gaaggaaacc gctgaagctt acttaggcaa aactgtgacc aatgctgtcg ttactgtcct 480  
 gcctacttca atgactcaca acgtcaagcc accaaggatt cgggaactat ctccggtctg 540  
 aatgtgttg 549

<210> 2283

<211> 543

<212> DNA

<213> Ctenocephalides felis

FC-8-C3.ST25.txt

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 tggtggaaaa gacatgccat caggagaatt agccactggt actggctggg gaaatttagg 240  
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 ctctaaggga gttctgcatg gaatagtgtc ttggggaata ggatgtgcac gacccgaaat 480  
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 tgg 543

<210> 2284  
 <211> 545  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2284  
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 aatttttaag tggcccttta atatcttcta gaattaaata tggcaaccgt accccttatg 120  
 tttgctgaag atgacctaga aggtggtgga aaagaagggt caatcgagaa tgactttgca 180  
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 tatggactac ttaccgttca gttgttattg agcttgctgg tgggcatagc ctgccaaatt 300  
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 ctgttaacaa ttttcacaat tacaaactcc atcagtgtgg gtgtgctagt aacacatttt 480  
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 <212> DNA  
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FC-8-C3.ST25.txt

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gaaaccatgt accctgcaat gtgttatttg atgtcactgt aaagctggat ttgtcaaaaa	300
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tgaggcttat ccaggatgatg tcttctacct tcaactcacgt ctacttgaac gtgccgctaa	180
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actggaatta gctcaatatc gtgaggtggc tgcttttgcc caattcggct cagatcttga	480
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gacttagatt tttcggttca atatggagtc accaaaaattt cacaaaaagg tgatactgta	180
gttgatgttg atgaaataat tgtacacaaa ggttataatc ctagtaacag ttatatcaac	240

FC-8-C3.ST25.txt

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 ggaataaatt ctactaccga cggagtttta caaacacatc tccaagaatt gcactaccag 420  
 atcgtcggat ccaaggaatg tggatgatttg cacttttagac ccatttataa agagcaaatt 480  
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<210> 2288  
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 <212> DNA  
 <213> Ctenocephalides felis

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 gagcaatact tagtgtcact ggatgggggtg caactaagga aggtggcggc ggaactttgc 180  
 aactacaagg tgtgaaagtt ccagctatct ctcccaaaga ttgtgctaag gggatatccac 240  
 cttctggagg taaagacaaa attacagaca gcatgttatg tgctgggtctt cctgaaggag 300  
 gtaaagattc ctgccaaagg gacagtggcg gtccactggg agatgaaaat agaaagcaag 360  
 taggagtggg ttcttggggg caaggatgtg ccagaccagg aaaaccagga atttatgcta 420  
 aagtgtcaca ccccgaaatc agaaaattta ttgaaaaata tgctaattgt taagtggatt 480  
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<210> 2289  
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 <212> DNA  
 <213> Ctenocephalides felis

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 tggtagatga catctctgct gaatatgaaa acagcattgc aagaattagc caagatagca 180  
 aaattgaaat gattgctgct gaattcgaaa aacaaggatt tgcccctgaa gtcgatagag 240

FC-8-C3.ST25.txt

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ctaaggtcaa ggcttgcagg gatgataaac gtgaggaatt caaccaagtt cgccaaaatg	420
gcttgccgcc tggagagaag ccagggagaa cgccgaagcc ctgagagcac aagccaagga	480
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tctgtgaat atgaaaacag cattgcaaga attagccaag atagcaaaat tgaaatgatt	180
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aacaaagaag ttgaaaggaa acttagcaaa aaagtgagtg aagccgcaaa ggaatgcctt	300
aaaggccaac accaaaaagc tctaggtttt gcacaagaag ctctgtgctaa ggtcaaggct	360
tgcagggatg ataaacgtga ggaattcaac caagttcgcc aaaatggctt ggccgcctgg	420
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caaagacaag tacaagcaag ttttcttggg tggagttgac aagaagaccc aattctggcg	180
ttacttcgca ggaaacttgg catctggtgg tgctgtgga gccacatcat tgtgcttcgt	240
ctaccactt gatcttggcc gtaccagatt ggccgctgat gtaggtaaag gcgctggtca	300
acgtgaattc tctggattgg gcaactgctt gacaaaaatc ttcaagtctg atggtctccc	360
tggattgtac cgtgggtttt gagtatctgt tcaaggatc atcatctacc gtgcagcata	420

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<210> 2292  
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 aagaatatta ttaaatttat ttatattaat atattttatt ggggtgatag gaaaatttat 240  
 aaaacttttt ttttattaaa acataaataa ttgaataatt gatccataaa ttatgattaa 300  
 aagattaagt tacttaaggg ataacagcgt aattattttt aagagaacat atcgacaaaa 360  
 tagattgcca cctcgatgtt ggattaagat aatttttaaa tgcagaagtt ttaaaatttg 420  
 gtctgttcga cccattaatt cttacatgat ctgagttcaa acccggttta agccaggttg 480  
 gtttctatcc ttaattttta aaattaatta ngtagcgaag gggccaatta atttataata 540  
 a 541

<210> 2293  
 <211> 542  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2293  
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 aaagtccaac cgatcaaaat tagcaagaga aacatcaagg gtggtgaaat ttgcaaggca 180  
 actggttggg gtctattagg ttctgtggac tcagtaccaa acgaattaca acaagtagaa 240

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 ctagtttaca aaaatgaact tgttggcatt acatcgatgc acttatactc ctgcagaggt 420  
 gggcaggcca gatatttttg tgaaagtgcg agatttccaa tcctggatta attctgaaat 480  
 tgaaaaaaat taaatagatt ccaatcatga tttggtataa tgaaaaatgg ttaataaagg 540  
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<220>  
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 acgtttttgtg atgcatcata aatatacacc aaaaattact gtcaactatg ctgatattgg 240  
 tctaataaaa gtggcgaaag acattgtatt cagtgacaaa gttcaaccaa tcaaaattag 300  
 caaaagaaat atcaaggatg gtgaaatctg caaggccact ggttgggggtc gattggcgga 360  
 tggggcccca gtaccaaacg aattacaaca agtggaaacc actgtaataa caaacgaaaa 420  
 gtgctacgaa ttgtctcaat tcgttgaacc aacttcgcaa atatgtacat taaaagaatt 480  
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 aaaaaggcgn gttgctggcg ttntcatagc tcgcccctga cgagcatcac aaaaatcgac 480



gctaagtcag aggtgcgaac ccgcaggact ataagatacc aggcgttccc cctggag 537

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 <212> DNA  
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 acaaggattt gccctgaag tcgatagaga tttggaaagg ttcaacaaag aagttgaaag 240  
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 gaacagaatt gtcgggggac aaactaccca aattaatgaa agaccttatc aagtatcaag 180  
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atttgataaa aatataaaag cagcgggtctg gcagaggatg gatatgagcc agaaataaat	480
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ttgtcacgat tgttctactt tgaagttgtg cgctggacaa gaaaccccaa ttcaacaatc	180
aattgcagag actcaaattc cgatgctcca ttttgtgtag atgatatgtg ctcacaaaaa	240
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FC-8-C3.ST25.txt

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tccttcgnng gcagctngga naaccctttt naagcaaaact ctggnttcat cgacatcggc      360
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<211> 336

<212> DNA

<213> Ctenocephalides felis

<400> 2302

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<210> 2303

<211> 549

<212> DNA

<213> Ctenocephalides felis

<400> 2303

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FC-8-C3.ST25.txt

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tttgaagttg tgcgctggac aagaaacccc aattacaaca atcaattgca gagactcaaa 240
ttccgatgct ccattttgtg tagatgatat gtgctcatca aaacctgggg aaaactgtaa 300
gacggcagaa actacatgcg cggttgtagg atatcagcca gatccgaaag actgcacaag 360
atacttattc tgcaaagatg gtaaagggtca ggttttcgaa tgcccaccta actatgtata 420
tgatcattct aaaaattgtg taaaaagaaa tcgtcagaag ctgattgacc gcatgaaatg 480
ccaaatccaa ttctttatac ctatcaccca cccatcaatt atgcttgtgc atgacaatgc 540
accgtcgac 549

```

```

<210> 2304
<211> 549
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 2304
gtttgccgtg cgtgtacata atatacgtgt gatttaggtt gttaggaata ttaataaatt 60
aaactgtctt aagtaaaaac aaatccacaa aatggcattg atgcgttgta tttctgcgaa 120
caagttggcg gagtcacacc ataaagtgat ccccatcatc gccaccgcta ttagacactt 180
atcagcagaa tctactgata tcaaagcagt tttagaaaaa attataccta gagaacaaca 240
aagagtcaaa gaattccgta aatctcatgg agccacaaaa gtgggagaag tcaccgttga 300
tatgatgtat ggtggtatgc gtggtattaa gggattagtc tgtgaaactt cagtattaga 360
ccctgaagag ggcattcggt tccgaggctt atctatccca gaatgccaaa aagttttacc 420
caaagcacca ggtggcgaag aacctttacc tgagggtctt tttggtatta atcaccggtg 480
aagtccaccg agctaagtta aagcctgcaa aggaatgggc taccggccca taccactcat 540
gtagtcagt 549

```

```

<210> 2305
<211> 545
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (473)..(473)
<223> n = unknown

```

```

<220>
<221> misc_feature
<222> (521)..(521)
<223> n = unknown

```

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<400> 2305

```

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```

tgctatatcg ggtcgagttt gcaaaagagt tttatttaat ttattggtgc cgcccggtgtt    60
aaattaagta aactttttca agatgatgcc cgcacttgca gacccagtgg ctttcgccaa    120
ggatttcgcc gcagggtgga tttctgctgc agtctctaag actgtggtgg caccatcga    180
acgtgtcaaa ttgctcctgc aagtacaaca catttccaaa caaattgctg aggataaacg    240
ttacaaaggt atcatcgatt gctttgtacg tatccctaag gagcagggcg tactttcctt    300
ctggcggtgt aacttggcca atgtcattcg ttatttccca actcaggctt tgaacttcgc    360
attcaaagac aagtacaagc aagttttctt ggggtggagt gacaagaaga cccaattctg    420
gcgttacttc gcaggaaact tggcatctgg tgggtgctgtg gaccacatat tngctcgtc    480
accacttga ttcgccgtcc agatggccgt gatgaggtaa ngcctgtcaa cgtgatcttg    540
gatgg                                              545

```

```

<210> 2306
<211> 461
<212> DNA
<213> Ctenocephalides felis

```

```

<400> 2306
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actggatggg gatcaactag aaatggacct tcaaccaatg ttttgcaaga agttcaagta    120
ccacatgtcg accaaaccac ttgctccaaa tcttaccag gaagtttgac tgatcgtatg    180
ttctgcgctg gatatttggg acaaggaggc aaggactctt gtcaagggtga ctctgggtggc    240
ccagtagtcg tcaatggagt tcaacacgga attgtatcct ggggtcgtgg ttgtgcactt    300
cctgattatc ccggagttaa ctctaaaatc tctaccgctc gcagctggat caaggaagtg    360
tctgggtgtt aatttattct tgaaatctct attttgtatt atttatgtat atagtaagag    420
ttttaaatat aaatagtaac atttaaaaaa aaaaaaaaaa a                        461

```

```

<210> 2307
<211> 501
<212> DNA
<213> Ctenocephalides felis

```

```

<220>
<221> misc_feature
<222> (423)..(423)
<223> n = unknown

```

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<220>
<221> misc_feature
<222> (468)..(468)
<223> n = unknown

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<400> 2307  
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 ggacgagaag acccttttaa gttttatata taaatataga ttaattttta gaatattatt 120  
 aaatttatTT atattaatat attttattgg ggtgatagga aaatttataa aacttttttt 180  
 ttattaaaac ataaataatt gaataattga tccataaatt atgattaaaa gattaagtta 240  
 ctttaagggat aacagcgtaa ttatttttaa gagaacatat cgacaaaata gattgcgacc 300  
 tCGatgttgg attaagataa ttttaaaatg cagaagtttt aaaatttggt ctgttcgacc 360  
 aataattctt acatgatctg agttcaaacc ggtttaagcc aggttggttt ctatccttaa 420  
 ttnttttaaaa ttaattagtc gaaaggccat taatttataa taattatnta atttgaataa 480  
 ataaaaaaaa aaaaaaaaaa a 501

<210> 2308  
 <211> 307  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2308  
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 gtgccgaata tgctgacgta gatgtgtgcc aagatttggc cgatggaact tttcttctgt 120  
 attcaaacaa ttgccaaaat ttcttcattt gtgatggagg ccgagcttgg aaaatgtatt 180  
 gtccaggatc acttttatgg aatgatcacg aaggaacatg tgattacgca caaaatgtag 240  
 aatgttacca accagaataa aacattttta tatctgaaaa aaaaaaaaaa aaaaaaaaaa 300  
 aaaaaaa 307

<210> 2309  
 <211> 545  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2309  
 tatttactaa atattgtgaa ataaatcatt ttcaaaatgg tgtccaaagt gtttgttgct 60  
 cttgccatca ttggctttat aggggctgca caagcctttt tcgaacaaga tgccgtctta 120  
 gataagatgg tagatgacat ctctgctgaa tatgagaaca gcattgcaag aattagccaa 180  
 gatagcaaaa ttgatatgat tgccgctgaa ttcgaaaaac aaggatttgc ccctgaagtc 240  
 gatagagatt tggagagggt caacaaagaa gttgaaagga aacttagcaa aaaagtgagt 300  
 gaagccgcaa aggaatgcct taaaggccaa caccaaaaag ctctaggcta cgcacaagaa 360  
 gcccgctgcta aggtcaaggc ttgcagagat gacaaacgtg atgaattcaa ccaagttcgc 420



aaaatggctt gccgctggag agaagccagg gagaacgccg aagccctcag agcacaagcc 480  
aaggatgcgt tgtgaccgca gccgtgtcga tgaaccagag tttgctggaa ggggttctcc 540  
agctg 545

<210> 2310  
<211> 521  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (442)..(442)  
<223> n = unknown

<400> 2310  
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cccgtgttaa attaagtaaa ctttttcaag atgatgcccg cacttgcaga ccagtggtct 120  
ttcgccaagg atttcgccgc aggtgggtatt tctgccgcag tctctaagac tgtggtagca 180  
cccatcgaac gtgtcaaatt gtcctgcaa gtacaacaca tttccaaaca aattgctgag 240  
gataaacggt acaaagggtat catcgattgc tttgtacgta tccctaagga gcagggcgta 300  
ctttccttct ggcgtggtaa cttggccaat gtcattcggt atttcccaac tcaggctttg 360  
aacttcgcat tcaaagacaa gtacaagcaa gttttcttgg gtggagttga caagaagacc 420  
caattctggc gttacttcgc angaaacttg gcatctggtg gtgtgtggac cacatcattg 480  
tgcttcgcta ccattgatt cgccgaccag attgccgtgt g 521

<210> 2311  
<211> 549  
<212> DNA  
<213> Ctenocephalides felis

<220>  
<221> misc\_feature  
<222> (356)..(356)  
<223> n = unknown

<220>  
<221> misc\_feature  
<222> (526)..(526)  
<223> n = unknown

<400> 2311  
gttttcaaga ataaattaca aataaatact gaattatact aaaaaacat gtcggcaagc 60  
ttggctgcta ggagatcatt ggtacttta tggaggcaag gatggaatga aattcctgaa 120

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gtaatgctta gtactgccat ggggaatggca ggaattggca tcagctgtta tgccatttat	180
agaacctatg tacttgaagg tggagactac agaaaatatac gaatgggata tgttgatatat	240
cgccctgatg accccagagt agcaaaaatt cgtccagaag atcgataaat tatgaatgat	300
agtatattat tttaaaatta acaagtatag ttaatgtaaa tatcttatat ttttgngatt	360
ttatttgttt gctctaaagg tggtctgttt tgcctaagct cttattctgg ttctaattac	420
tatcagctta ttgtgatcac aataaatcag gcatattcat gtaaattgtg cacattgatg	480
ttgtagtcta tactatatga aaagcaccca ttgctatcaa ataaantaat aaatccaaaa	540
aaaaaaaa	549

<210> 2312  
 <211> 204  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2312	
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ggaccatttt ttccaacct gctgttaat gctacatctt tattagatct tccaatggac	120
tctgctgaac aaaatatgtt tagttttgct gcaaacttat atactacaat gtatatgaga	180
ttaataagtc aaagaaatcg aacg	204

<210> 2313  
 <211> 545  
 <212> DNA  
 <213> Ctenocephalides felis

<400> 2313	
tgaattcatt aagtaaaaac agtaagttta tagttagtag taagcgtaac gccgtcagca	60
gcaccaggc cgaatctttc tgtatctctc tgggtgtcgg gcctctgtgg tggctctgat	120
gacttccacc acgagatagg acatagccca ccaccttacc atgaagacga cgaccagctg	180
cggcacaccc gcaaaagcag cataagtgat agcgattcag aagacgattc tattgatact	240
tcgccggatt attcccagaa cgcggatgtc gatgagttac ttcaccttgg caaaccagta	300
cgcattacat tcgaactacg gctcacgaag cgcaacagca ccctatggga gacagttttg	360
aaggagaacg tgctctatgt aaatattcct aatgtattgc ttctgagggg tctcgtgaaa	420
gtttcacggc gctcctggaa ctgaccgagg agaagctggg atgccattcg atggtgtgtg	480
catgcacgcy atcgtcagac agacagcagc tcatgctgga ttatgttcct cgggtccactg	540
tgccc	545

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